PRELIMINARY DRAFT

Lead-Based Paint Inspection and Risk Assessment Report for Building # 4

at

Aleda E. Lutz Veteran Affairs Medical Center (VAMC)
1500 Weiss
Saginaw, MI

Prepared for

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GEMS Coordinator/Emergency Manager

Prepared by:

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Table of contents

Appendix A: Scope of work

Appendix B: XRF Performance Characteristic Sheet

Appendix C: XRF sample results

Appendix D: Dust wipe and soil sample results

Appendix E: Drawings
Figure 1: first floor
Figure 2: second floor

Appendix F: Interim controls and re-evaluation schedule for hazardous levels of dust

Appendix G: Laboratory results and chains-of-custody

Appendix H: XRF raw data

Appendix I: Total abatement cost estimate

1.0 Summary

Aleda E. Lutz Veteran Affairs Medical Center (VAMC) retained Earth Smart Environmental Solutions, LLC (ES2) to conduct a lead-based paint inspection and lead risk assessment at the VAMC located at 1500 Weiss Road in Saginaw, MI. Mr. William Jerome, GEMS Coordinator/Emergency Manger represented the VAMC (the owner) during this project.

Mr. Mark Dziadosz, a Certified Lead Inspector/Risk Assessor (Michigan Certificate # P-03969D) conducted lead-based paint inspection and risk assessment for the subject property from July 25, 2009 to July 27, 2009, he was assisted by Mrs. Elizabeth Cichon.

This report provides results from Building # 4 located at the VAMC campus. Building # 4 is currently an active office building and appears to be in good condition. The scope of work for the Building # 4 included a lead-based paint inspection for the 1st floor, 2nd floor, crawl space, and the outside of Building # 4, and a risk assessment of each room/area where a positive result for lead was found during the inspection.

Laboratory analysis was provided by EMSL Analytical, 2001 East 52nd Street, Indianapolis, IN 46205 and they can be reached at (317) 803-2997. Their AIHA Environmental Lead Proficiency Analytical Testing (ELPAT) Program Accreditation number is #157245.

The lead-based paint inspection of the Building # 4 indicated that several components on both the 1st and 2nd floors of the building, the crawl space, and the exterior of the building contain lead-based paint. A lead risk assessment conducted for the areas where lead-based paint is present concluded that the first and second floors had concentrations of lead in dust above the hazard levels. Details of the lead-based paint inspection and lead risk assessment scope of work, procedures, results and conclusion are discussed in subsequent sections of this report.

Appendix A provides the scope of work provided by the VAMC.

2.0 Procedures

In conducting lead inspections, ES2 follows procedures outlined in Chapter 7 of the Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" and the "XRF Performance Characteristics Sheet for the Niton Corporation: XL-300 Spectrum Analyzer" developed by HUD and the EPA.

ES2's investigation of the building consisted of breaking it down into separate functional areas. For the testing of paint, each functional area is then broken down into different building components, according to the various colors and substrates. Within each separate room, or functional area, each painted surface is tested. ES2 tested only permanent painted building components. The following is a list of most commonly tested features: walls, door components, window components, stair components, ceilings, floors, pipes, radiators, hand rails, guard rails, ladders, ductwork, columns, and beams.

Lead-based paint is defined as paint that contains 1.0 mg/cm^2 or 0.5 % by weight of lead, a level set by the Housing and Urban Development (HUD) Program and the Environmental Protection Agency (EPA). However, in 1992 OSHA passed standards for the construction industry for lead containing materials including paint (29 CFR 1926.62). This regulation describes the procedures that must be implemented to protect workers from disturbing lead materials during such activities as demolition, renovation, construction, alteration, or repair of buildings where lead may be present. Unlike the HUD and EPA standard of 1.0 milligrams per square centimeter, or 0.5 percent by weight as the concentration considered positive for lead, OSHA's Lead Standard uses any lead level as response for construction and demolition activities which might produce large amounts of construction/lead dusts. Therefore, materials containing lead below 1.0 mg/cm^2 are not necessarily safe to sand, demolish or otherwise disturb in manners that may produce dust, which could be ingested or inhaled.

For the purpose of this project, the HUD and EPA standard of 1.0 mg/cm^2 will be used.

Lead Risk Assessments are conducted to establish lead hazards within a facility. Title X of 1992 of the Housing and Community Development Act covers lead hazards and defines them as:

- Lead paint that is in poor condition or deteriorated as defined by Title X.
- Friction surfaces i.e. sliding windows, rubbing doors that have lead based paint with associated dust levels that exceed the safe limits set forth.
- Impact surfaces i.e. door jambs, window troughs that have lead based paint and have impact caused by another building component.
- Any chewable surfaces with evidence of teeth marks that have lead based paint.
- Lead contaminated dust that exceeds the safe levels set forth.
- Lead contaminated soil that exceeds the safe levels set forth.

3.0 Lead-based paint inspection

Mr. Mark Dziadosz assisted by Ms. Elizabeth Cichon, conducted the lead inspection and risk assessment of Building # 4 from July 25th to July 27th, 2009. A lead inspection is a surface-by-surface identification of lead containing components using XRF lead paint analyzer.

The X-Ray Fluorescence (XRF) machine utilized for lead-based paint inspection on this project was a Niton XL 300 Lead Analyzer, Serial Number U4323NR5841.

Appendix B provides the Performance Characteristic Sheet for the XRF used on this project.

Several building components on both floor levels, in the crawl space, and on the exterior of Building # 4 were found to contain lead-based paint.

Appendix C provides XRF results with positive results shown in red.

4.0 Visual inspection and risk assessment

Rooms are numbered based upon stickers on door jambs as requested by the client. SP2-4 would be room 2 in Building # 4. In halls where no room number was available, one was created. To describe locations of components on the XRF the standard of "A" was used for the address side of the building (or the side where the building number is posted), "B" would be the next side going clockwise and so on for "C" and "D".

4.1 Visual inspection

ES2 assessed all interior and exterior areas within Building # 4. Most paint in the building was found in intact condition. ES2 used HUD guidelines as described below for the categories of paint film quality on building components.

Type of building component	Intact	Fair	Poor
Exterior components with large surface areas	Entire surface is intact	Less than or equal to 10 ft^2	More than 10 ft^2
Interior components with large surface areas	Entire surface is intact	Less than or equal to 2 ft^2	More than 2 ft^2
Interior and exterior components with small surface areas	Entire surface is intact	Less than or equal to 10% of the total surface area of the component	More than 10% of the total surface area of the component

Only components that had a positive lead result (per HUD regulations greater than or equal to 1.0 mg/cm^2) were assessed for their condition. The following building components that tested positive for lead-based paint were found to be in poor condition:

First floor

- SP109-4 white metal asbestos insulated pipe

Second floor

- SP210-4 white wood window sill

Outside

- SPOutiside-4 black metal round base

Refer to Appendix C for the location and quantity of these building components

All other building components that were positive for lead were in intact condition.

There may be additional building components present above ceilings that could not be accessed for this lead inspection and risk assessment.

4.2 Risk assessment

As requested by the client, a risk assessment was performed in each room that had a positive result on the XRF for lead. Dust wipe samples were collected according to HUD guidelines, as follows:

- An area located on the surface to be sampled is measured and marked.
- A single approved sampling wipe is opened with gloved hand and wiped across the sampling area in a series of "S" patterns.
- The wipe is then placed into a container labeled with the site location identification and sample location.
- Samples are analyzed by EMSL Analytical laboratory. The results are reported in micrograms per square foot ($\mu g/ft^2$).

The EPA and HUD clearance and risk assessment standard for dust wipes on a floor is 40 $\mu g/ft^2$, on a window sill is 250 $\mu g/ft^2$, and in a window trough or window well is 400 $\mu g/ft^2$.

Samples were labeled using the same room numbering system as the visual inspection followed by 1W for a floor sample and 2W for a window sill sample.

The following dust wipe samples tested above the standard for lead:
First floor

- SPFC1-4-1W floor
- SP106A-4-1W floor
- SP109-4-1W floor

Second floor

- SP2FC-4-1W floor

Appendix D provides dust wipe results and the location of these hazards.

Due to a rock garden that surrounds the building, no soil samples were collected from the outside of the building however, a soil sample was taken from the confined space.

Acceptable lead soil levels are as follow: 400 mg/kg for play areas and 1,200 mg/kg for other parts of the yard.

Soil samples for the crawl space of Building # 4 exceeded the 400 mg/kg standard levels for lead in soil with a result of 490 mg/kg.

Refer to Appendix D for soil sampling location and results.

Based on the results of the lead-based paint inspection and risk assessment, ES2 recommends that the following items be addressed immediately to reduce the risk of lead exposure:

2nd Floor

Room Number	Building Component	Lead-based Paint Color	Area (square feet)	Recommended Action
SP210-4	Window Sill	White	3	Paint stabilization (remove loose/damaged paint and apply new protective coating or paint)

SP2FC-4	Floor, windows and all components with visible dust		10	Remove equipment, supplies & miscellaneous items; clean all components including floor and window sill for dust

1st floor

Room Number	Building Component	Lead-based Paint Color	Area (square feet)	Recommended Action
SP109-4	Wall	White	3	Paint stabilization (remove loose/damaged paint and apply new protective coating or paint), or replace door
SP109-4	Floor, windows and all components with visible dust		7	Remove equipment, supplies & miscellaneous items; clean all components including floor and window sill for dust
SPFC1-4	Floor, windows and all components with visible dust		10	Remove equipment, supplies & miscellaneous items; clean all components including floor and window sill for dust
SP106A-4	Floor, windows and all components with visible dust		54	Remove equipment, supplies & miscellaneous items; clean all components including floor and window sill for dust

Crawl space

Room Number	Building Component	Lead-based Paint Color	Area (square feet)	Recommended Action
SPBSMT-CS-4	Soil			Keep area restricted and investigate further to determine extent of lead in soil

Outside

Room Number	Building Component	Lead-based Paint Color	Area (square feet)	Recommended Action
SPOutside-4	Round Base	Black	4	Paint stabilization (remove loose/damaged paint and apply new protective coating or paint)

These recommendations are based on the interim controls required to address lead-based paint in poor condition in Building # 4. This does not include components with lead-based paint that are in intact condition. There may be other components that were not accessible at the time of inspection, which may require abatement or interim control. The actions recommended above must be performed by a certified lead abatement contractor.

Refer to Section 7.0 for the cost estimate.

5.0 Findings

The following paragraphs describe the positive results for lead confirmed by the XRF readings and dust wipes collected from Building # 4 at the VAMC campus.

5.1 XRF testing results

In Building # 4 there were several painted components that tested positive for lead per the XRF. These components include: pipes, conduits, hangers, door jambs, doors, window frames, window sills, radiators, stair risers, stair baseboards, banisters, decorative molding, roof access (including hatch and frame), baseboards, and crown molding. On the outside of the building, the following painted components tested positive for lead: poles, metal bases, porch ceiling, metal poles, doors, and metal plates.

Refer to Appendix C to find the approximate location, color, and quantity of these components.

Refer to Appendix H to find the raw data table produced by the XRF.

5.2 Dust wipe sample results

In each room where a component tested positive for lead by the XRF, a dust wipe sample was collected on the floor and from a window sill when there was a window present (window troughs were not sampled because windows were metal and not painted). In Building # 4 dust wipes collected from floors 1 and 2 showed presence of lead above the hazard level of 40 $\mu g/ft^2$ for dust on floor and 250 $\mu g/ft^2$ for dust on a window sill. The dust wipe samples from floors 1 and 2 exceeding the hazard levels ranged from 92 $\mu g/ft^2$ to 660 $\mu g/ft^2$ of lead.

Refer to Appendix D for the approximate location of the dust wipe samples.

Appendix E contains drawings for each floor with positive XRF and dust wipe sample locations.

Appendix G contains laboratory results and chains-of-custody.

5.3 Soil sample results

A composite soil sample from the confined space exceeded the 400 mg/kg standard level with a result of 490 mg/kg.

6.0 Lead hazard control plan & re-evaluation schedule

All painted components require periodic re-evaluation and monitoring. Re-evaluation typically is scheduled on a bi-annual basis but more frequent re-evaluations may be required depending on site conditions. All painted surfaces must remain in good, intact condition. Painted surfaces that are peeling, cracking, blistering, or causing dust from friction or impact must be corrected immediately to prevent hazardous exposure to possible lead-based paint sources. All repairs must follow HUD guidelines for the interim control and abatement of lead-based paint hazards.

As an interim control option for the components stated in Section 4.0, prior to applying new paint, all loose paint and materials shall be removed from the surface by wet scraping or wet sanding. Power sanding can be performed in conjunction with a HEPA filtered local exhaust attachment. (Dry sanding or dry scraping is only permitted in accordance with 24 CFR 35.140 and for reasons due to electrical safety.) Paint stabilization shall include the application of a new protective coating or paint. All protective coatings and paints shall be applied in accordance with the manufacture's recommendations and in accordance with 24 CFR 35.1330 (b). A permanent solution may be the abatement of all lead based paint in accordance with 24 CFR 35.1325. ES2 recommends that all components listed in Section 4.0 must be abated of all lead-based paint or fully encapsulated to minimize exposure risk and must also be re-evaluated.

Appendix F contains interim control measures and re-evaluation schedule.

7.0 Cost estimate

As requested by the client, ES2 has prepared a cost estimate of the items that require immediate attention. The cost is estimated only for the components listed in Risk Assessment - Section 4.2 of this report. The full abatement cost of all lead-based paint present in the building is provided in Appendix I.

Floor	Estimated cost for paint stabilization	Clearance sampling & third party certification
2nd floor	$500	$300
2nd floor (dust cleanup)	$1,000	$300
1st floor	$500	$300
2nd floor (dust cleanup)	$5,000	$1,000
Confined Space (soil clean up)	requires further investigation and estimating	
Outside	$500	$300
Estimated Total Cost	**$7,500 + soil**	**$2,000.00 plus any cost for project management, specification preparation, hosting bid walk, etc.**

Cost is based upon an estimate cost of $100 per square foot for paint stabilization. Any component that can be replaced, such as doors, replacement cost is estimated rather than stabilization.

Please note that the actual cost could be lower or higher depending on the actual area abated and cleaned.

8.0 Closing

This inspection and risk assessment was conducted by a certified Lead Inspector and Risk Assessor for the benefit of the VAMC. The lead-based painted components identified in this report must be addressed using interim controls or abatement options discussed in this report. Reevaluation schedule must be followed if interim control measures are used. After cleaning, paint film stabilization and /or abatement work is completed, clearance dust samples must be collected to make sure that the building is lead-safe.

Mark Dziadosz
Certified Lead Inspector/Risk Assessor #P-03969D
BS Natural Resources and Environment
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Appendix A:
Scope of work

Lead Assessment Scope of Work 3/19/2009

Services required:

Lead Identification by a independent contractor of all Medical Center buildings at 1500 Weiss ST, Saginaw MI 48602:

a. Contractor shall perform Lead Identification. Suspected lead-containing materials have to be evaluated by a test. Lead identification shall be accomplished by X-Ray Fluorescence (XRF) technology only. Inspectors shall be EPA certified for lead assessments.

b. Contractor shall provide a copy of the EPA certifications for each person who will be performing the inspections and evaluations to the COTR prior to assessment.

c. The XRF test shall be completed in accordance to the EPA regulations (40 CFR Part 745.226-227), HUD regulations (24 CFR 35.92), OSHA regulations(29 CFR Parts 1926.62 and 1910.1025) and state and local regulations

d. A report with data results from all the analysis shall be provided to the VA Medical Center Saginaw COTR in paper and electronic form. Data shall be provided and organized by the VAMC Room number/building location i.e. 71-1, the first number is the room number and the second number is the building number.

e. The report shall include simple schematics. Simple schematics (optimal view: plan view, elevation, and/or sectional view) of each area being assessed shall show all test locations in addition to areas with positive readings for lead.

f. A line by line summary of areas testing positive for lead shall be provided including a remediation cost estimate for each.

g. A cumulative abatement cost estimate with total square footage, and location of affected areas testing positive for lead shall be provided.

h. A risk assessment with recommended actions shall be provided for each room testing positive for lead.

i. Contractor shall assess all internal and external areas of the Medical Center buildings and structures located at 1500 Weiss St. except Building 22 and Building 30. The estimated area to be assessed is approximately 270,000 SQ FT and other structures.

Appendix B:
XRF Performance Characteristic Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}Cd
Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.
XLp 300A, XLp 301A, XLp 302A and XLp 303A.
XLi 700A, XLi 701A, XLi 702A and XLi 703A.
XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25^{th} Percentile	Median	75^{th} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.*

Appendix C:
XRF sample results

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
ROOM SP203-4										
1			SHUTTER CALIBRATION							
2			CALIBRATION				3.56 +/- 0.61			
3			CALIBRATION				0 +/- .01			
4			CALIBRATION				1.14 +/- 0.13			
5	4	SP203-4	WALL	PLASTER	WHITE	C	.01 +/- .05			
6	4	SP203-4	DOOR FRAME	METAL	GRAY	C	.56 +/- 1.04			
7	4	SP203-4	DOOR	METAL	GRAY	C	0 +/- .12			
8	4	SP203-4	WALL	PLASTER	WHITE	D	.01 +/- .11			
9	4	SP203-4	CONDUIT	METAL	WHITE	D	0 +/- .01			
10	4	SP203-4	RADIATOR	METAL	WHITE	D	0 +/- .04			
11	4	SP203-4	BASEBOARD	VINYL	BLACK	D	1.18 +/- 1.26	24	INTACT	Abatement or Encapsulation of all Lead Based Paint
12	4	SP203-4	WINDOW SILL	WOOD	WHITE	D	5.11 +/- 1.88	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
13	4	SP203-4	WINDOW FRAME	WOOD	WHITE	D	4.10 +/- 1.43	10	INTACT	Abatement or Encapsulation of all Lead Based Paint
14	4	SP203-4	WINDOW	METAL	SILVER	D	0 +/- .01			
15	4	SP203-4	WALL	PLASTER	WHITE	A	05 +/- .83			
16	4	SP203-4	WALL	METAL	WHITE	A	.78 +/- 1.06			
17	4	SP203-4	VOID							
18	4	SP203-4	WALL	DRYWALL	WHITE	B	0 +/- .01			
19	4	SP203-4	DROP CEILING TILE	WOOD	WHITE		0 +/- .01			
20	4	SP203-4	CEILING GRID	METAL	BLACK		.04 +/- .25			
21	4	SP203-4	WALL	CONCRETE	BLACK	D	0 +/- .01			
22	4	SP203-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .14			
ROOM SP212-4										
23			CALIBRATION				1.26 +/- .19			
24			CALIBRATION				.34 +/- .16			
25			CALIBRATION				0 +/- .01			
26			SHUTTER CALIBRATION							

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DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
27			CALIBRATION				1.68 +/- .29			
28			CALIBRATION				3.12 +/- 0.86			
29			CALIBRATION				0 +/- .01			
30	4	SP212-4	WALL	PLASTER	WHITE	A	0 +/- .11			
31	4	SP212-4	DOOR JAMB	METAL	GRAY	A	.13 +/- .40			
32	4	SP212-4	WALL	PLASTER	WHITE	B	.30 +/- .92			
33	4	SP212-4	DOOR	METAL	GRAY	A	0 +/- .14			
34	4	SP212-4	WALL	PLASTER	WHITE	C	0 +/- .01			
35	4	SP212-4	WALL	DRYWALL	WHITE	D	.01 +/- .12			
36	4	SP212-4	DROP CEILING TILE	WOOD	WHITE		.17 +/- .65			
37	4	SP212-4	CEILING GRID	METAL	BLACK		.17 +/- .31			
38	4	SP212-4	VOID							
39	4	SP212-4	LIGHT FIXTURE	METAL	WHITE		0 +/- .11			

ROOM SP213-4

40	4	SP213-4	DROP CEILING TILE	WOOD	WHITE		0 +/- .08			
41	4	SP213-4	CEILING GRID	METAL	BLACK		.06 +/- .19			
42	4	SP213-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .17			
43	4	SP213-4	HANGER	METAL	ORANGE		11.55 +/- 2.69	2	INTACT	Abatement or Encapsulation of all Lead Based Paint
44	4	SP213-4	CONDUIT	METAL	BLACK		.04 +/- .3			
45	4	SP213-4	WALL	PLASTER	WHITE	A	0 +/- .04			
46	4	SP213-4	WALL	PLASTER	WHITE	B	.01 +/- .12			
47	4	SP213-4	BASEBOARD	VINYL	GRAY	B	.52 +/- 1.0			
48	4	SP213-4	DOOR	METAL	GRAY	C	0 +/- .03			
49	4	SP213-4	DOOR FRAME	METAL	GRAY	C	.01 +/- .18			
50	4	SP213-4	WALL	DRYWALL	WHITE	C	0 +/- .07			
51	4	SP213-4	WALL	DRYWALL	WHITE	D	0 +/- .10			
52	4	SP213-4	STALL	METAL	RED	A	.09 +/- .14			

ROOM SP211-4

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
53	4	SP211-4	WALL	PLASTER	WHITE	A	.15 +/- .84			
54	4	SP211-4	WALL	PLASTER	WHITE	B	.04 +/- 04			
55	4	SP211-4	DOOR FRAME	METAL	WHITE	C	.09 +/- .22			
56	4	SP211-4	DOOR	METAL	GRAY	C	0 +/- .03			
57	4	SP211-4	WALL	PLASTER	WHITE	D	.33 +/- .86			
58	4	SP211-4	WALL	PLASTER	WHITE	C	.12 +/- .3			
59	4	SP211-4	SHELF	WOOD	WHITE		.01 +/- .2			
60	4	SP211-4	CEILING	PLASTER	WHITE		.07 +/- .15			
61	4	SP211-4	WALL	PLASTER	GRAY	B	.31 +/- .96			
62			SHUTTER CALIBRATION							
63			CALIBRATION				1.46 +/- .23			
64			CALIBRATION				0 +/- .01			
65			CALIBRATION				3.33 +/- .067			
66	4	SP211-4	WALL	PLASTER	GRAY	D	.06 +/- .03			
67	4	SP211-4	FLOOR	CONCRETE	BLACK		.52 +/- .22			
				ROOM SP210-4						
68	4	SP210-4	WALL	PLASTER	WHITE	A	.01 +/- .21			
69	4	SP210-4	WINDOW SILL	WOOD	WHITE	A	5.62 +/- 1.78	3	POOR	Abatement or Encapsulation of all Lead Based Paint
70	4	SP210-4	WINDOW FRAME	WOOD	WHITE	A	3.48 +/- 1.14	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
71	4	SP210-4	RADIATOR	METAL	WHITE	A	.08 +/- .28			
72	4	SP210-4	WALL	PLASTER	WHITE	B	.01 +/- .04			
73	4	SP210-4	DOOR FRAME	METAL	GRAY	C	.01 +/- .21			
74	4	SP210-4	DOOR	METAL	GRAY	C	.01 +/- .19			
75	4	SP210-4	WALL	PLASTER	WHITE	D	.15 +/- .84			
76	4	SP210-4	WALL	DRYWALL	WHITE	C	.06 +/- .17			
77	4	SP210-4	DROP CEILING TILE	WOOD	WHITE		0 +/- .01			
78	4	SP210-4	CEILING GRID	METAL	BLACK		.06 +/- .25			
79	4	SP210-4	LIGHT FIXTURE	METAL	WHITE		.02 +/- .18			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
80	4	SP210-4	CONDUIT	METAL	BLACK		0 +/- .01			
				ROOM SP209-4						
81	4	SP209-4	WALL	PLASTER	WHITE	A	.01 +/- .13			
82	4	SP209-4	RADIATOR	METAL	WHITE	A	.02 +/- .13			
83	4	SP209-4	WINDOW SILL	WOOD	WHITE	A	4.82 +/- 1.58	3	INTACT	Abatement or Encapsulation of all Lead Based Paint
84	4	SP209-4	WINDOW FRAME	WOOD	WHITE	A	4.33 +/- 1.55	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
85	4	SP209-4	WALL	PLASTER	WHITE	B	.08 +/- .64			
86	4	SP209-4	DOOR FRAME	METAL	GRAY	C	.02 +/- .08			
87	4	SP209-4	DOOR	METAL	GRAY	C	0 +/- .13			
88	4	SP209-4	CONDUIT	METAL	WHITE	D	0 +/- .12			
89	4	SP209-4	WALL	PLASTER	WHITE	C	0 +/- .06			
90	4	SP209-4	WALL	PLASTER	WHITE	D	.05 +/- .78			
91	4	SP209-4	DROP CEILING TILE	WOOD	WHITE		.01 +/- .63			
92	4	SP209-4	LIGHT FIXTURE	METAL	WHITE		.03 +/- .26			
93	4	SP209-4	CEILING GRID	METAL	BLACK		.02 +/- .19			
				ROOM SP208-4						
94	4	SP208-4	WALL	PLASTER	WHITE	A	0 +/- .01			
95	4	SP208-4	RADIATOR	METAL	WHITE	A	.11 +/- .38			
96	4	SP208-4	WINDOW SILL	WOOD	WHITE	A	.02 +/- .22			
97	4	SP208-4	WINDOW SILL	WOOD	WHITE	A	4.6 +/- 1.56	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
98	4	SP208-4	WINDOW FRAME	WOOD	WHITE	A	5.28 +/- 1.82	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
99	4	SP208-4	WINDOW FRAME	WOOD	WHITE	A	7.69 +/- 2.25	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
100	4	SP208-4	WALL	PLASTER	WHITE	B	.02 +/- .07			
101	4	SP208-4	WALL	PLASTER	WHITE	C	0 +/- .03			
102	4	SP208-4	DOOR FRAME	METAL	GRAY	C	.01 +/- .04			
103	4	SP208-4	DOOR	METAL	GRAY	C	0 +/- .12			
104	4	SP208-4	WALL	PLASTER	WHITE	D	.01 +/- .1			
105	4	SP208-4	CONDUIT	METAL	WHITE	D	.16 +/- .56			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
106	4	SP208-4	DROP CEILING TILE	WOOD	WHITE		0 +/- .04			
107	4	SP208-4	CEILING GRID	METAL	BLACK		.04 +/- .23			
108	4	SP208-4	LIGHT FIXTURE	METAL	WHITE		.05 +/- .21			
109	4	SP208-4	CEILING	CONCRETE	BLACK		0 +/- .05			
ROOM SP206-4										
110	4	SP206-4	WALL	PLASTER	WHITE	C	.01 +/- .10			
111	4	SP206-4	RADIATOR	METAL	WHITE	C	.09 +/- .20			
112	4	SP206-4	WINDOW SILL	WOOD	WHITE	C	6.04 +/- 2.06	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
113	4	SP206-4	WINDOW FRAME	WOOD	WHITE	C	6.08 +/- 2.36	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
114	4	SP206-4	CONDUIT	METAL	WHITE	C	0 +/- .05			
115	4	SP206-4	WALL	PLASTER	WHITE	D	.02 +/- .05			
116	4	SP206-4	WALL	PLASTER	WHITE	A	.05 +/- .17			
117	4	SP206-4	WALL	PLASTER	WHITE	B	.43 +/- .94			
118	4	SP206-4	DOOR	METAL	GRAY	B	0 +/- .11			
119	4	SP206-4	DOOR FRAME	METAL	GRAY	B	2.31 +/- .96	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
120	4	SP206-4	DOOR FRAME	METAL	GRAY	C	.02 +/- .81			
121	4	SP206-4	DROP CEILING TILE	WOOD	WHITE		0 +/- .01			
122	4	SP206-4	CEILING GRID	METAL	BLACK		.03 +/- .21			
123	4	SP206-4	LIGHT FIXTURE	METAL	WHITE		0 +/- .09			
ROOM SP2FC-4										
124	4	SP2FC-4	WALL	PLASTER	WHITE	B	.27 +/- .85			
125	4	SP2FC-4	WALL	PLASTER	RED	B	.85 +/- .09			
126	4	SP2FC-4	WALL	PLASTER	WHITE	C	.15 +/- .09			
127	4	SP2FC-4	WALL	PLASTER	RED	C	1.57 +/- .26	1.6	INTACT	Abatement or Encapsulation of all Lead Based Paint
128	4	SP2FC-4	WALL	PLASTER	WHITE	D	.11 +/- .06			
129	4	SP2FC-4	WALL	PLASTER	RED	D	.87 +/- .06			
130	4	SP2FC-4	DOOR JAMB	METAL	GRAY	A	.01 +/- .14			
131	4	SP2FC-4	DOOR	METAL	GRAY	A	0 +/- .08			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
132	4	SP2FC-4	CONDUIT	METAL	WHITE	C	0 +/- .01			
133	4	SP2FC-4	ELECTRICAL BOX	METAL	RED	C	.47 +/- .23			
134	4	SP2FC-4	ELECTRICAL BOX	METAL	WHITE	C	.05 +/- .19			
135	4	SP2FC-4	WALL	PLASTER	WHITE	A	.08 +/- .02			
136	4	SP2FC-4	CEILING	PLASTER	WHITE		.08 +/- .09			
137	4	SP2FC-4	FLOOR	CONCRETE	RED		1.61 +/- .3	3	INTACT	Abatement or Encapsulation of all Lead Based Paint
138			CALIBRATION				1.01 +/- .07			
139			CALIBRATION				0 +/- .10			
140			CALIBRATION				1.34 +/- .14			
141			SHUTTER CALIBRATION							
142			CALIBRATION				3.37 +/- 1.05			
143			CALIBRATION				0 +/- .09			
144			CALIBRATION				.91 +/- .07			

ROOM SP207-4

145	4	SP207-4	DOOR FRAME	METAL	GRAY	A	.07 +/- .11			
146	4	SP207-4	DOOR	METAL	GRAY	A	0 +/- .13			
147	4	SP207-4	CONDUIT	METAL	WHITE	A	0 +/- .06			
148	4	SP207-4	WALL	PLASTER	WHITE	A	.04 +/- .15			
149	4	SP207-4	WALL	PLASTER	WHITE	B	.05 +/- .14			
150	4	SP207-4	BASEBOARD	VINYL	BLACK	B	.53 +/- 1.01			
151	4	SP207-4	WALL	PLASTER	WHITE	C	0 +/- .06			
152	4	SP207-4	WINDOW SILL	WOOD	WHITE	C	4.84 +/- 1.7	11	INTACT	Abatement or Encapsulation of all Lead Based Paint
153	4	SP207-4	WINDOW FRAME	WOOD	WHITE	C	5.0 +/- 1.84	14	INTACT	Abatement or Encapsulation of all Lead Based Paint
154	4	SP207-4	RADIATOR	METAL	WHITE	C	.26 +/- .36			
155	4	SP207-4	WALL	PLASTER	WHITE	D	.09 +/- .59			
156	4	SP207-4	DOOR FRAME	METAL	GRAY	D	2.54 +/- 1.16	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
157	4	SP207-4	DOOR	METAL	GRAY	D	0 +/- .11			
158	4	SP207-4	DROP CEILING TILE	WOOD	WHITE		.07 +/- .62			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
159	4	SP207-4	CEILING GRID	METAL	BLACK		.01 +/- .02			
160	4	SP207-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .18			
161	4	SP207-4	WALL	CONCRETE	BLACK	D	.01 +/- .03			
162	4	SP207-4	HANGER	METAL	ORANGE		8.1 +/- 2.43	1	INTACT	Abatement or Encapsulation of all Lead Based Paint
ROOM SP214-4										
163	4	SP214-4	WALL	PLASTER	WHITE	A	.61 +/- .89			
164	4	SP214-4	WALL	PLASTER	WHITE	B	.37 +/- .97			
165	4	SP214-4	WALL	PLASTER	WHITE	C	0 +/- .1			
166	4	SP214-4	DOOR JAMB	METAL	GRAY	C	4.38 +/- 1.72	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
167	4	SP214-4	DOOR	METAL	GRAY	C	0 +/- .11			
168	4	SP214-4	WALL	PLASTER	WHITE	D	0 +/- .01			
169	4	SP214-4	SHELF	WOOD	WHITE	D	0 +/- .01			
170	4	SP214-4	SHELF BRACE	METAL	WHITE	D	.01 +/- .11			
171	4	SP214-4	DROP CEILING TILE	WOOD	WHITE		.07 +/- .64			
172	4	SP214-4	CEILING GRID	METAL	BLACK		.01 +/- .18			
173	4	SP214-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .12			
174	4	SP214-4	CONDUIT	METAL	BLACK		0 +/- .03			
ROOM SP215-4										
175	4	SP215-4	DROP CEILING TILE	WOOD	WHITE		.29 +/- .48			
176	4	SP215-4	CEILING GRID	METAL	BLACK		.13 +/- .24			
177	4	SP215-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .14			
178	4	SP215-4	HANGER	METAL	ORANGE		2.97 +/- .96	2	INTACT	Abatement or Encapsulation of all Lead Based Paint
179	4	SP215-4	CONDUIT	METAL	BLACK		.02 +/- .02			
180	4	SP215-4	WALL	PLASTER	WHITE	A	.12 +/- .67			
181	4	SP215-4	DOOR FRAME	METAL	GRAY	A	2.21 +/- .96	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
182	4	SP215-4	DOOR	METAL	GRAY		.01 +/- .14			
183	4	SP215-4	WALL	PLASTER	WHITE	B	.12 +/- .25			
184	4	SP215-4	URINAL WALL	METAL		B	.11 +/- .17			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
185	4	SP215-4	STALL	METAL		C	.09 +/- .04			
186	4	SP215-4	WALL	PLASTER	WHITE	C	.90 +/- .97			
187	4	SP215-4	RADIATOR	METAL	WHITE	C	0 +/- .06			
188	4	SP215-4	WALL	PLASTER	WHITE	D	.01 +/- .09			
189	4	SP215-4	BASEBOARD	VINYL	GRAY	D	0 +/- .09			
ROOM SP204-4										
190	4	SP204-4	WALL	PLASTER	WHITE	A	.01 +/- .12			
191	4	SP204-4	DOOR FRAME	METAL	GRAY	A	.19 +/- .86			
192	4	SP204-4	DOOR	METAL	GRAY	A	0 +/- .09			
193	4	SP204-4	BASEBOARD	VINYL	BLACK	A	0 +/- .01			
194	4	SP204-4	WALL	PLASTER	WHITE	B	.01 +/- .13			
195	4	SP204-4	WALL	PLASTER	WHITE	C	.03 +/- .07			
196	4	SP204-4	WINDOW SILL	WOOD	WHITE	C	4.2 +/- 1.48	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
197	4	SP204-4	WINDOW FRAME	WOOD	WHITE	C	3.65 +/- 1.20	10	INTACT	Abatement or Encapsulation of all Lead Based Paint
198	4	SP204-4	CONDUIT	PLASTIC	WHITE	C	.06 +/- .79			
199	4	SP204-4	WALL	PLASTER	WHITE	D	.04 +/- .11			
200	4	SP204-4	RADIATOR	METAL	WHITE	D	.01 +/- .07			
201	4	SP204-4	DROP CEILING TILE	WOOD	WHITE		.14 +/- .52			
202	4	SP204-4	CEILING GRID	METAL	BLACK		.01 +/- .01			
203	4	SP204-4	LIGHT FIXTURE	METAL	WHITE		0 +/- .05			
204	4	SP204-4	CEILING	CONCRETE	BLACK		0 +/- .03			
205	4	SP204-4	PIPE	METAL	BLUE		0 +/- .01			
ROOM SP205-4										
206	4	SP205-4	WALL	PLASTER	WHITE	A	.06 +/- .19			
207	4	SP205-4	DOOR FRAME	METAL	GRAY	A	.13 +/- .24			
208	4	SP205-4	DOOR	METAL	GRAY	A	0 +/- .11			
209	4	SP205-4	WALL	PLASTER	WHITE	B	.01 +/- .19			
210	4	SP205-4	CONDUIT	PLASTIC	WHITE	B	0 +/- .13			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
211	4	SP205-4	WALL	PLASTER	WHITE	C	.06 +/- .11			
212	4	SP205-4	WINDOW SILL	WOOD	WHITE	C	5.58 +/- 1.95	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
213	4	SP205-4	WINDOW FRAME	WOOD	WHITE	C	7.71 +/- 2.55	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
214	4	SP205-4	RADIATOR	METAL	WHITE	C	.03 +/- .09			
215	4	SP205-4	WALL	PLASTER	WHITE	D	.01 +/- .10			
216	4	SP205-4	DROP CEILING TILE	WOOD	WHITE		.03 +/- .62			
217	4	SP205-4	CEILING GRID	METAL	BLACK		.05 +/- .28			
218	4	SP205-4	LIGHT FIXTURE	METAL	WHITE		.03 +/- .11			
219	4	SP205-4	CEILING	CONCRETE	BLACK		0 +/- .01			
ROOM SPCOR2-4										
220	4	SPCOR2-4	ALL	PLASTER	WHITE	A	.03 +/- .16			
221	4	SPCOR2-4	DOOR FRAME	METAL	GRAY	A	.05 +/- .21			
222	4	SPCOR2-4	DOOR	METAL	GRAY	A	.02 +/- .2			
223	4	SPCOR2-4	WINDOW SILL	WOOD	WHITE	B	5.12 +/- 1.59	3	INTACT	Abatement or Encapsulation of all Lead Based Paint
224	4	SPCOR2-4	WINDOW FRAME	WOOD	WHITE	B	6.82 +/- 2.75	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
225	4	SPCOR2-4	CONDUIT	PLASTIC	WHITE	A	.01 +/- .15			
226	4	SPCOR2-4	RADIATOR	METAL	WHITE	B	.02 +/- .10			
227	4	SPCOR2-4	WALL	PLASTER	WHITE	B	.01 +/- .76			
228	4	SPCOR2-4	WALL	PLASTER	WHITE	C	.06 +/- .83			
229	4	SPCOR2-4	EXTERIOR DOOR	METAL	GRAY	D	0 +/- .1			
230	4	SPCOR2-4	EXTERIOR DOOR FRAME	METAL	GRAY	D	0 +/- .06			
231	4	SPCOR2-4	WALL	PLASTER	WHITE	D	0 +/- .03			
232	4	SPCOR2-4	SPEAKER	METAL	WHITE		0 +/- .10			
233	4	SPCOR2-4	LIGHT FIXTURE	METAL	WHITE		.04 +/- .21			
234	4	SPCOR2-4	CEILING GRID	METAL	BLACK		0 +/- .09			
235	4	SPCOR2-4	DROP CEILING TILE	WOOD	WHITE		0 +/- .06			
236	4	SPCOR2-4	CONDUIT	METAL	BLACK		.01 +/- .15			
237	4	SPCOR2-4	PHONE JACK	METAL	WHITE	A	.27 +/- .57			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
238	4	SPCOR2-4	CEILING	CONCRETE	BLACK		0 +/- .11			
				ROOM SP202-4						
239	4	SP202-4	WALL	PLASTER	WHITE	A	.21 +/- .28			
240	4	SP202-4	WINDOW SILL	WOOD	W	B	5.97 +/- 1.81	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
241	4	SP202-4	WINDOW FRAME	WOOD	W	B	3.69 +/- 1.30	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
242	4	SP202-4	RADIATOR	METAL	WHITE		.15 +/- .29			
243	4	SP202-4	BALLUSTRAD	METAL	WHITE		1.36 +/- .42	14	INTACT	Abatement or Encapsulation of all Lead Based Paint
244	4	SP202-4	BANNISTER	METAL	WHITE		2.59 +/- 8.3	32	INTACT	Abatement or Encapsulation of all Lead Based Paint
245	4	SP202-4	DECORATIVE MOLDING	WOOD	WHITE		1.88 +/- .70	6	INTACT	Abatement or Encapsulation of all Lead Based Paint
246	4	SP202-4	HANDRAIL	WOOD	VARNISH		0,.12			
247	4	SP202-4	VOID							
248	4	SP202-4	BASEBOARD	WOOD	WHITE		5.58 +/- 2.26	21	INTACT	Abatement or Encapsulation of all Lead Based Paint
249	4	SP202-4	HANDRAIL	WOOD	VARNISH		.05 +/- .31			
250	4	SP202-4	HANDRAIL HOLDER	METAL	WHITE		2.69 +/- 1.08	1	INTACT	Abatement or Encapsulation of all Lead Based Paint
251	4	SP202-4	WALL	PLASTER	WHITE	B	.24 +/- .24			
252	4	SP202-4	CONDUIT	METAL	WHITE	D	.05 +/- .33			
253	4	SP202-4	FIRE ALARM	METAL	WHITE	D	.05 +/- .24			
254	4	SP202-4	WALL	PLASTER	WHITE	C	.32 +/- .40			
255	4	SP202-4	VOID							
256	4	SP202-4	DOOR FRAME	METAL	GRAY	C	1.66 +/- .61	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
257	4	SP202-4	DOOR	METAL	GRAY	C	0 +/- .07			
258	4	SP202-4	WALL	PLASTER	WHITE	D	.19 +/- .17			
259	4	SP202-4	CEILING	PLASTER	WHITE		.02 +/- .26			
260	4	SP202-4	ROOF ACCESS	WOOD	WHITE		5.25 +/- 1.78	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
261	4	SP202-4	CALIBRATION				3.79 +/- .57			
262	4	SP202-4	CALIBRATION				.34 +/- .16			
263	4	SP202-4	CALIBRATION				0 +/- .01			
273	4	SP202-4	RISER	METAL	WHITE		1.18 +/- .42	65	INTACT	Abatement or Encapsulation of all Lead Based Paint

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
ROOM SP105-4										
1			SHUTTER CALIBRATION							
2			CALIBRATION				0 +/- .01			
3			CALIBRATION				.32 +/- .07			
4			CALIBRATION				1.06 +/- .08			
5	4	SP105-4	WALL	PLASTER	WHITE	A	0 +/- .09			
6	4	SP105-4	DOOR FRAME	METAL	GRAY	A	.06 +/- .22			
7	4	SP105-4	DOOR	METAL	GRAY	A	0 +/- .10			
8	4	SP105-4	BASEBOARD	VINYL	BROWN	A	.24 +/- .69			
9	4	SP105-4	WALL	PLASTER	WHITE	B	.05 +/- .12			
10	4	SP105-4	WALL	PLASTER	WHITE	C	.06 +/- .36			
11	4	SP105-4	RADIATOR	METAL	WHITE	C	.06 +/- .20			
12	4	SP105-4	WINDOW SILL	WOOD	WHITE	C	5.5 +/- 1.89	6	INTACT	Abatement or Encapsulation of all Lead Based Paint
13	4	SP105-4	WINDOW FRAME	WOOD	WHITE	C	4.52 +/- 1.49	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
14	4	SP105-4	WALL	PLASTER	WHITE	D	.01 +/- .17			
15	4	SP105-4	WALL	DRYWALL	WHITE	D	0 +/- .11			
16	4	SP105-4	WALL	DRYWALL	WHITE	A	.01 +/- .2			
17	4	SP105-4	CLOSET DOOR	WOOD	WHITE	D	.01 +/- .20			
18	4	SP105-4	CONDUIT	PLASTC	WHITE	B	.01 +/- .15			
19	4	SP105-4	DROP CEILING TILE	WOOD	WHITE		.16 +/- .51			
20	4	SP105-4	CEILING GRID	METAL	BLACK		.01 .17			
21	4	SP105-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .20			
22	4	SP105-4	CEILING	PLASTER	CREAM		.25 +/- .82			
23	4	SP105-4	CONDUIT	METAL	BLACK		.05 +/- .03			
24	4	SP105-4	HANGER	METAL	ORANGE		16.87 +/- 6.27	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
25	4	SP105-4	PIPE	METAL	BLACK		.04 +/- .03			
26	4	SP105-4	CEILING	CONCRETE	BLACK		.03 +/- .73			
ROOM SPFC1-4										

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
27	4	SPFC1-4	WALL	PLASTER	WHITE	A	.09 +/- .22			
28	4	SPFC1-4	DOOR JAMB	METAL	GRAY	A	.03 +/- .32			
29	4	SPFC1-4	DOOR	METAL	GRAY	A	0 +/- .15			
30	4	SPFC1-4	WALL	PLASTER	WHITE	B	.07 +/- .83			
31	4	SPFC1-4	WALL	PLASTER	WHITE	C	.06 +/- .04			
32	4	SPFC1-4	WALL	PLASTER	WHITE	D	.08 +/- .86			
33	4	SPFC1-4	CEILING	PLASTER	WHITE		.55 +/- 1.0			
34	4	SPFC1-4	CONDUIT	METAL	WHITE	C	0 +/- .11			
35	4	SPFC1-4	FIRE ALARM BOX	METAL	RED	C	.02 +/- .19			
36	4	SPFC1-4	FIRE HOSE HOOK	METAL	RED	B	0 +/- .01			
37	4	SPFC1-4	METAL HOOK	METAL	RED	C	.01 +/- .16			
38	4	SPFC1-4	METAL HOOK	METAL	WHITE	C	0 +/- .01			
39	4	SPFC1-4	WALL	PLASTER	RED	B	.87 +/- .09			
40	4	SPFC1-4	WALL	PLASTER	RED	C	1.22 +/- .17	2	INTACT	Abatement or Encapsulation of all Lead Based Paint
41	4	SPFC1-4	WALL	PLASTER	RED	D	1.22 +/- .18	0.5	INTACT	Abatement or Encapsulation of all Lead Based Paint
42	4	SPFC1-4	FLOOR	CONCRETE	RED		1.56 +/- .26	3	INTACT	Abatement or Encapsulation of all Lead Based Paint
ROOM SP106A-4										
43	4	SP106A-4	DOOR FRAME	METAL	GRAY	A	.01 +/- .11			
44	4	SP106A-4	DOOR	METAL	GRAY		0 +/- .11			
45	4	SP106A-4	WALL	CINDER BLOCK	BLACK SPECKL	B	.11 +/- .22			
46	4	SP106A-4	WALL	CINDER BLOCK	WHITE	B	.07 +/- .23			
47	4	SP106A-4	INSTRUMENT PANEL	METAL	BLACK	C	.03 +/- .25			
48	4	SP106A-4	CAGE	METAL	GRAY	B	.06 +/- .11			
49	4	SP106A-4	WALL	CINDER BLOCK	WHITE	C	.03 +/- .13			
50	4	SP106A-4	WALL	CINDER BLOCK	BLACK SPECKL	C	.01 +/- .06			
51	4	SP106A-4	ASBESTOS INSULATED PIPE	METAL	BLACK SPECKL	D	14.68 +/- 3.33	13	INTACT	Abatement or Encapsulation of all Lead Based Paint
52	4	SP106A-4	ASBESTOS INSULATED PIPE	METAL	WHITE	D	16.54 +/- 22.3	7.5	INTACT	Abatement or Encapsulation of all Lead Based Paint
53	4	SP106A-4	WALL	CINDER BLOCK	BLACK SPECKL	D	.07 +/- .17			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
54	4	SP106A-4	WALL	CINDER BLOCK	WHITE	D	.21 +/- .86			
55	4	SP106A-4	CONDUIT	METAL	WHITE		13.13 +/- 2.86	6	INTACT	Abatement or Encapsulation of all Lead Based Paint
56	4	SP106A-4	HANGER	METAL	WHITE		16.63 +/- 7.26	2	INTACT	Abatement or Encapsulation of all Lead Based Paint
57	4	SP106A-4	CEILING	CONCRETE	WHITE		0 +/- .02			
58	4	SP106A-4	WALL	CONCRETE	WHITE	C	.32 +/- .98			
74	4	SP106A-4	FLOOR	CONCRETE	GRAY		.09 +/- .10			
ROOM SP106-4										
59	4	SP106-4	WALL	CINDER BLOCK	BLACK SPECKL	A	.08 +/- .4			
60	4	SP106-4	WALL	CINDER BLOCK	WHITE	A	0 +/- .01			
61	4	SP106-4	DOOR FRAME	METAL	GRAY	A	.06 +/- .20			
62	4	SP106-4	DOOR	METAL	GRAY	A	0 +/- .12			
63	4	SP106-4	WALL	CINDER BLOCK	BLACK SPECKL	B	.03 +/- .21			
64	4	SP106-4	WALL	CINDER BLOCK	WHITE	B	0 +/- .09			
65	4	SP106-4	ELECTRICAL BOX	METAL	GRAY	B	.06 +/- .18			
66	4	SP106-4	WALL	CINDER BLOCK	BLACK SPECKL	D	.04 +/- .3			
67	4	SP106-4	WALL	CINDER BLOCK	WHITE	D	0 +/- .03			
68	4	SP106-4	ASBESTOS INSULATED PIPE	METAL	BLACK SPECKL	D	24.81 +/- 8.10	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
69	4	SP106-4	ASBESTOS INSULATED PIPE	METAL	WHITE	D	19.40 +/- 6.30	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
70	4	SP106-4	CONDUIT	METAL	BLACK SPECKL	D	.03 +/- .75			
71	4	SP106-4	CONDUIT	METAL	WHITE	A	.01 +/- .15			
72	4	SP106-4	CEILING	CONCRETE	WHITE		0 +/- .01			
73	4	SP106-4	FLOOR	CONCRETE	GRAY		.05 +/- .06			
75			CALIBRATION				.33 +/- .14			
76			CALIBRATION				0 +/- .01			
77			CALIBRATION				1.64 +/- 32			
ROOM SP107-4										
78			SHUTTER CALIBRATION							
79			CALIBRATION				0 +/- .01			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
80			CALIBRATION				2.81 +/- .76			
81			CALIBRATION				.44 +/- .21			
82	4	SP107-4	WALL	PLASTER	WHITE	A	0 +/- .08			
83	4	SP107-4	RADIATOR	METAL	WHITE	A	0 +/- .01			
84	4	SP107-4	BASEBOARD	VINYL	BROWN	A	.37 +/- .90			
85	4	SP107-4	WINDOW SILL	WOOD	WHITE	A	.02 +/- .25			
86	4	SP107-4	WINDOW FRAME	WOOD	WHITE	A	6.85 +/- 1.98	28	INTACT	Abatement or Encapsulation of all Lead Based Paint
87	4	SP107-4	WINDOW SILL	WOOD	WHITE	A	4.96 +/- 1.85	25	INTACT	Abatement or Encapsulation of all Lead Based Paint
88	4	SP107-4	CONDUIT	METAL	WHITE	A	.01 +/- .15			
89	4	SP107-4	ELECTRICAL BOX	METAL	WHITE	A	0 +/- .11			
90	4	SP107-4	DOOR	METAL	BROWN	A	.08 +/- .66			
91	4	SP107-4	DOOR JAMB	METAL	BROWN	A	.01 +/- .05			
92	4	SP107-4	DOOR FRAME	METAL	WHITE	A	0 +/- .02			
93	4	SP107-4	WALL	PLASTER	WHITE	B	.46 +/- .99			
94	4	SP107-4	WALL	PLASTER	WHITE	C	.35 +/- .98			
95	4	SP107-4	COLUMN	PLASTER	WHITE		.56 +/- .98			
96	4	SP107-4	WINDOW BOARD	WOOD	WHITE	C	0 +/- .11			
97	4	SP107-4	PLATE	PLASTIC	WHITE	C	.07 +/- .16			
98	4	SP107-4	WALL	DRYWALL	WHITE	D	0 +/- .09			
99	4	SP107-4	WALL	DRYWALL	WHITE	C	.11 +/- .65			
100	4	SP107-4	DOOR FRAME	METAL	GRAY	C	0 +/- .1			
101	4	SP107-4	DOOR	METAL	GRAY	C	0 +/- .07			
102	4	SP107-4	WALL	PLASTER	WHITE	D	0 +/- .09			
103	4	SP107-4	DROP CEILING TILE	WOOD	WHITE		.01 +/- .11			
104	4	SP107-4	CEILING GRID	METAL	BLACK		.01 +/- .15			
105	4	SP107-4	LIGHT FIXTURE	METAL	WHITE		.03 +/- .18			
106	4	SP107-4	CEILING	PLASTER	WHITE		.01 +/- .02			

ROOM SP107A-4

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
107	4	SP107A-4	WALL	PLASTER	WHITE	A	0 +/- .07			
108	4	SP107A-4	BASEBOARD	VINYL	BROWN	A	0 +/- .06			
109	4	SP107A-4	DOOR FRAME	METAL	GRAY	A	0 +/- .14			
110	4	SP107A-4	DOOR	METAL	GRAY	A	0 +/- .14			
111	4	SP107A-4	WALL	DRYWALL	WHITE	B	0 +/- .01			
112	4	SP107A-4	RADIATOR	METAL	WHITE	C	0 +/- .01			
113	4	SP107A-4	CONDUIT	PLASTIC	WHITE	C	0 +/- .11			
114	4	SP107A-4	WINDOW SILL	WOOD	WHITE	C	4.91 +/- 1.88	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
115	4	SP107A-4	WINDOW FRAME	WOOD	WHITE	C	5.10 +/- 1.82	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
116	4	SP107A-4	WALL	PLASTER	WHITE	C	0 +/- .10			
117	4	SP107A-4	WALL	PLASTER	WHITE	D	.12 +/- .81			
118	4	SP107A-4	DROP CEILING TILE	WOOD	WHITE		.03 +/- .62			
119	4	SP107A-4	CEILING GRID	METAL	BLACK		.04 +/- .13			
120	4	SP107A-4	CEILING	PLASTER	WHITE		.15 +/- .82			

ROOM SP108-4

121	4	SP108-4	WALL	PLASTER	WHITE	A	0 +/- .01			
122	4	SP108-4	RADIATOR	METAL	WHITE	A	.03 +/- .04			
123	4	SP108-4	WALL	PLASTER	WHITE	B	0 +/- .01			
124	4	SP108-4	BASEBOARD	VINYL	BLACK	B	4.38 +/- 1.42	20	INTACT	Abatement or Encapsulation of all Lead Based Paint
125	4	SP108-4	WALL	PLASTER	WHITE	C	0 +/- .01			
126	4	SP108-4	DOOR JAMB	METAL	GRAY	C	.01 +/- .10			
127	4	SP108-4	DOOR	METAL	GRAY	C	0 +/- .11			
128	4	SP108-4	WALL	DRYWALL	WHITE	D	0 +/- .01			
129	4	SP108-4	WALL	PLASTER	WHITE	D	0 +/- .06			
130	4	SP108-4	STALL	METAL	RED	D	.07 +/- .06			
131	4	SP108-4	DROP CEILING TILE	WOOD	WHITE		.21 +/- .55			
132	4	SP108-4	CEILING GRID	METAL	BLACK		.01 +/- .14			
133	4	SP108-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .15			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
134	4	SP108-4	WALL	CINDER BLOCK	WHITE	B	.04 +/- .18			
135	4	SP108-4	CEILING	CONCRETE	WHITE		0 +/- .03			
136	4	SP108-4	WALL	CONCRETE	WHITE	C	.25 +/- .96			
137	4	SP108-4	WALL	CINDER BLOCK	WHITE	D	.01 +/- .15			
138	4	SP108-4	ASBESTOS INSULATED PIPE	METAL	WHITE		10.94 +/- 2.56	22	INTACT	Abatement or Encapsulation of all Lead Based Paint
ROOM SP109-4										
139	4	SP109-4	WALL	PLASTER	WHITE	A	.05 +/- .05			
140	4	SP109-4	SHELF	WOOD	WHITE	A	.01 +/- .29			
141	4	SP109-4	WALL	PLASTER	WHITE	B	.07 +/- .28			
142	4	SP109-4	WALL	PLASTER	WHITE	C	1.68 +/- .44	3	POOR	Abatement or Encapsulation of all Lead Based Paint
143	4	SP109-4	WALL	PLASTER	WHITE	D	.03 +/- .07			
144	4	SP109-4	DOOR FRAME	METAL	GRAY	C	.08 +/- .23			
145	4	SP109-4	DOOR	METAL	GRAY	C	0 +/- .06			
146	4	SP109-4	WALL	PLASTER	GRAY	D	.21 +/- .88			
147	4	SP109-4	WALL	PLASTER	GRAY	B	.07 +/- .22			
148	4	SP109-4	FLOOR	CONCRETE	BLACK		.6 +/- .2			
149	4	SP109-4	CEILING	PLASTER	WHITE		.05 +/- .04			
ROOM SPHALL1-4										
150	4	SPHALL1-4	WALL	PLASTER	WHITE	A	.02 +/- .04			
151	4	SPHALL1-4	DOOR FRAME	WOOD	WHITE	A	0 +/- .13			
152	4	SPHALL1-4	WALL	PLASTER	WHITE	B	.04 +/- .07			
153	4	SPHALL1-4	WALL	PLASTER	WHITE	C	.11 +/- .89			
154	4	SPHALL1-4	WALL	PLASTER	WHITE	D	.05 +/- .76			
155	4	SPHALL1-4	RADIATOR	METAL	WHITE	D	.09 +/- .28			
156	4	SPHALL1-4	DOOR FRAME	METAL	GRAY	C	.02 +/- .22			
157	4	SPHALL1-4	DOOR	METAL	GRAY	C	0 +/- .09			
158	4	SPHALL1-4	CEILING	PLASTER	WHITE		.45 +/- .92			
ROOM SPHALL2-4										

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
159	4	SPHALL2-4	CEILING	PLASTER	WHITE		.49 +/- .88			
160	4	SPHALL2-4	WALL	PLASTER	WHITE	A	.18 +/- .30			
161	4	SPHALL2-4	WALL	PLASTER	WHITE	B	.09 +/- .15			
162	4	SPHALL2-4	BASEBOARD	VINYL	BROWN	B	0 +/- .04			
163	4	SPHALL2-4	WALL	PLASTER	WHITE	C	.09 +/- .13			
164	4	SPHALL2-4	WALL	PLASTER	WHITE	D	.06 +/- .12			
165	4	SPHALL2-4	DOOR FRAME	METAL	GRAY	D	.17 +/- .37			
166	4	SPHALL2-4	DOOR	METAL	GRAY	C	0 +/- .07			
167	4	SPHALL2-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .01			
168	4	SPHALL1-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .01			
ROOM SP111-4										
169	4	SP111-4	WALL	PLASTER	WHITE	A	0 +/- .06			
170	4	SP111-4	RADIATOR	METAL	WHITE	A	.08 +/- .25			
171	4	SP111-4	WALL	PLASTER	WHITE	B	.48 +/- .99			
172	4	SP111-4	WALL	PLASTER	WHITE	C	.04 +/- .13			
173	4	SP111-4	WALL	DRYWALL	WHITE	C	.01 +/- .04			
174	4	SP111-4	WALL	PLASTER	WHITE	D	.06 +/- .19			
175	4	SP111-4	SINKMPLATE	PLASTIC	WHITE	D	.01 +/- .24			
176	4	SP111-4	DOOR	METAL	GRAY	D	0 +/- .04			
177	4	SP111-4	DOOR FRAME	METAL	GRAY	D	.10 +/- .15			
178	4	SP111-4	CEILING	DRYWALL	WHITE		.06 +/- .14			
179	4	SP111-4	BASEBOARD	CERAMIC TILE	PINK	B	15.58 +/- 6.83	15	INTACT	Abatement or Encapsulation of all Lead Based Paint
180	4	SP111-4	LIGHT FIXTURE	METAL	BROWN	D	.01 +/- .01			
181	4	SP111-4	DOOR PLATE	PLASTIC	BLACK	D	0 +/- .01			
ROOM SP102-4										
182	4	SP102-4	WALL	DRYWALL	WHITE	A	0 +/- .09			
183	4	SP102-4	BASEBOARD	VINYL	BROWN	A	0 +/- .01			
184	4	SP102-4	COLUMN	PLASTER	WHITE	A	0 +/- .01			

DOUBLE CI

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
185	4	SP102-4	DOOR	METAL	GRAY	B	0 +/- .08			
186	4	SP102-4	DOOR FRAME	METAL	GRAY	B	.67 +/- 1.04			
187	4	SP102-4	WALL	PLASTER	WHITE	B	.02 +/- .75			
188	4	SP102-4	WALL	PLASTER	WHITE	C	0 +/- .09			
189	4	SP102-4	WINDOW SILL	WOOD	WHITE	D	6.77 +/- 2.8	18	INTACT	Abatement or Encapsulation of all Lead Based Paint
190	4	SP102-4	WINDOW FRAME	WOOD	WHITE	D	4.37 +/- 1.39	24	INTACT	Abatement or Encapsulation of all Lead Based Paint
191	4	SP102-4	RADIATOR	METAL	WHITE	D	0 +/- .02			
192	4	SP102-4	WALL	PLASTER	WHITE	D	.03 +/- .19			
193	4	SP102-4	EXTERIOR DOOR	METAL	GRAY	D	.02 +/- .07			
194	4	SP102-4	EXTERIOR DOOR FRAME	METAL	GRAY	D	.01 +/- .04			
195	4	SP102-4	CONDUIT	PLASTIC	WHITE	B	.19 +/- .58			
196	4	SP102-4	EXTERIOR DOOR FRAME	WOOD	GRAY	D	.25 +/- .83			
197	4	SP102-4	SOFFIT	WOOD	WHITE		.02 +/- .07			
198	4	SP102-4	CROWN MOLDING	WOOD	WHITE		11.86 +/- 3.24	29	INTACT	Abatement or Encapsulation of all Lead Based Paint
199	4	SP102-4	LIGHT FIXTURE	METAL	WHITE		0 +/- .1			
200	4	SP102-4	CEILING	PLASTER	WHITE		.01 +/- .17			
				ROOM SP102A-4						
201	4	SP102A-4	CEILING	PLASTER	WHITE		.28 +/- .93			
202		SP102A-4	CROWN MOLDING	WOOD	WHITE	B	8.18 +/- 2.76	17	INTACT	Abatement or Encapsulation of all Lead Based Paint
203	4	SP102A-4	LIGHT FIXTURE	METAL	WHITE		.01 +/- .17			
204	4	SP102A-4	BASE PLATE BELOW CROWN MOL	WOOD	WHITE	C	.67 +/- 1.03			
205	4	SP102A-4	WALL	PLASTER	WHITE	A	.05 +/- .69			
206	4	SP102A-4	WALL	PLASTER	WHITE	B	.06 +/- .14			
207	4	SP102A-4	SHELF	WOOD	WHITE	B	5.10 +/- 2.01	35	INTACT	Abatement or Encapsulation of all Lead Based Paint
208	4	SP102A-4	CABINET MOLDING	WOOD	WHITE	B	7 +/- 2.95	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
209	4	SP102A-4	CABINET SHELF TRACKS	METAL	WHITE	B	.17 +/- .39			
210	4	SP102A-4	DOOR FRAME	METAL	GRAY	B	.02 +/- .28			
211	4	SP102A-4	DOOR	METAL	GRAY	B	0 +/- .11			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
212	4	SP102A-4	WALL	PLASTER	WHITE	C	.01 +/- .02			
213	4	SP102A-4	WALL	PLASTER	WHITE	D	0 +/- .01			
214	4	SP102A-4	BASEBOARD	VINYL	BROWN	D	0 +/- .01			
215	4	SP102A-4	RADIATOR	METAL	WHITE	D	.11 +/- .33			
216	4	SP102A-4	WINDOW SILL	WOOD	WHITE	D	6.32 +/- 2.32	8	INTACT	Abatement or Encapsulation of all Lead Based Paint
217	4	SP102A-4	WINDOW FRAME	WOOD	WHITE	D	7.64 +/- 2.86	10	INTACT	Abatement or Encapsulation of all Lead Based Paint
ROOM SPCOR1-4										
218	4	SPCOR1-4	WALL	PLASTER	WHITE	A	.43 +/- .51			STAIRCASE
219	4	SPCOR1-4	BASEBOARD	VINYL	BROWN	A	0 +/- .01			
220	4	SPCOR1-4	DOOR FRAME	METAL	GRAY	A	0 +/- .11			
221	4	SPCOR1-4	DOOR	METAL	GRAY	A	0 +/- .11			
222	4	SPCOR1-4	WALL	DRYWALL	WHITE	B	.01 +/- .11			
223	4	SPCOR1-4	WALL	PLASTER	WHITE	C	.38 +/- .56			
224	4	SPCOR1-4	CONDUIT	PLASTIC	WHITE	C	0 +/- .06			
225	4	SPCOR1-4	WALL	PLASTER	WHITE	D	.26 +/- .30			
226	4	SPCOR1-4	CEILING	PLASTER	WHITE		0 +/- .03			
227	4	SPCOR1-4	SPEAKER	METAL	WHITE		.01 +/- .17			
228	4	SPCOR1-4	DROP CEILING TILE	WOOD	WHITE		.42 +/- .6			
229	4	SPCOR1-4	CEILING GRID	METAL	WHITE		.09 +/- .25			
230	4	SPCOR1-4	LIGHT FIXTURE	METAL	WHITE		0 +/- .12			
ROOM SP110-4										
261	4	SP110-4	WALL	PLASTER	WHITE	C	.15 +/- .81			
262	4	SP110-4	WALL	PLASTER		B	.10 +/- .38			
263	4	SP110-4	WALL	PLASTER		A	.05 +/- .08			
264	4	SP110-4	WALL	PLASTER		D	.05 +/- .10			
265	4	SP110-4	DOOR FRAME	METAL	GRAY	C	.03 +/- .23			
266	4	SP110-4	DOOR	METAL	GRAY	C	0 +/- .13			
267	4	SP110-4	SHELF	WOOD	WHITE	A	.05 +/- .08			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
268	4	SP110-4	COATRACK	WOOD	WHITE	B	.02 +/- .24			
269	4	SP110-4	RACK	WOOD	VARNISH	D	0 +/- .01			
270	4	SP110-4	CERAMIC TILE	CERAMIC	PINK GLAZE	B	13.52 +/- 3.06	7	INTACT	Abatement or Encapsulation of all Lead Based Paint
271	4	SP110-4	CEILING	PLASTER	WHITE		.06 +/- .06			
272	4	SP110-4	CONDUIT	METAL	WHITE		.01 +/- .02			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
ROOM SPOUTSIDE-4										
231	4	OUTSIDE-4	POLE	METAL	BLACK	A	3.42 +/- 1.02	62	INTACT	Abatement or Encapsulation of all Lead Based Paint
232	4	OUTSIDE-4	RAILING	METAL	BLACK	A	.28 +/- .15			
233	4	OUTSIDE-4	RAILING	METAL	BLACK	A	.49 +/- .21			
234	4	OUTSIDE-4	VENT	METAL	BROWN	A	.03 +/- .02			
235	4	OUTSIDE-4	PLATE	METAL	BLACK	A	5.1 +/- 1.7	4	INTACT	Abatement or Encapsulation of all Lead Based Paint
236	4	OUTSIDE-4	CEILING	CONCRETE	WHITE	A	.16 +/- .86			
237	4	OUTSIDE-4	DRAIN SPOUT	METAL	BLACK	A	.03 +/- .02			
238	4	OUTSIDE-4	RAILING	METAL	SILVER	A	.08 +/- .67			
239	4	OUTSIDE-4	DOOR	METAL	BROWN	A	.01 +/- .05			
240	4	OUTSIDE-4	DOOR FRAME	METAL	BROWN	A	0 +/- .01			
241	4	OUTSIDE-4	GRATE	METAL	RED	B	18.18 +/- 7.53	14	INTACT	Abatement or Encapsulation of all Lead Based Paint
242	4	OUTSIDE-4	CONFINED SPACE FRAME	WOOD	WHITE	C	33.87 +/- 9.99	12	INTACT	Abatement or Encapsulation of all Lead Based Paint
243	4	OUTSIDE-4	CF DOOR	WOOD	WHITE	C	24.28 +/- 7.55	5	INTACT	Abatement or Encapsulation of all Lead Based Paint
244	4	OUTSIDE-4	RAILING	METAL	BLACK	D	0 +/- .01			
245	4	OUTSIDE-4	RAILING	METAL	BLACK	D	0 +/- .07			
246	4	OUTSIDE-4	STAIR	METAL	YELLOW	D	0 +/- .07			
247	4	OUTSIDE-4	POLE	METAL	BLACK	D	.02 +/- .03			
248	4	OUTSIDE-4	LANDING	METAL	BLACK	D	0 +/- .10			
249	4	OUTSIDE-4	DOWNSPOUT	METAL	BLACK	D	.04 +/- .27			
250	4	OUTSIDE-4	DOOR	METAL	CREAM	D	0 +/- .10			
251	4	OUTSIDE-4	DOOR FRAME	METAL	CREAM	D	.03 +/- .09			
252	4	OUTSIDE-4	OVERHANG	METAL	BLACK	D	.10 +/- .44			
253	4	OUTSIDE-4	OVERHANG BASE	METAL	BLACK	D	.01 +/- .15			
254	4	OUTSIDE-4	HANDRAIL	METAL	BLACK	D	.06 +/- .09			
255	4	OUTSIDE-4	DOOR FRAME	METAL	CREAM	D	.39 +/- .57			
256	4	OUTSIDE-4	DOOR	METAL	CREAM	D	.02 +/- .30			
257	4	OUTSIDE-4	OVERHANG FRAME	WOOD	WHITE	D	18.04 +/- 6.39	36	INTACT	Abatement or Encapsulation of all Lead Based Paint

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

258	4	OUTSIDE-4	FLOOR	CONCRETE	WHITE	D	.11 +/- .09			
259	4	OUTSIDE-4	ROUND BASE	METAL	BLACK	D	5.10 +/- 1.81	4	POOR	Abatement or Encapsulation of all Lead Based Paint
260	4	OUTSIDE-4	OVERHANG	CONCRETE	WHITE	D	.1 +/- .78			

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options
ROOM SPBSMT-CS-4										
19	4	SPBSMT-CS-4	PIPE	METAL	GRAY		14 +/- 6.1	157	INTACT	Abatement or Encapsulation of all Lead Based Paint
20	4	SPBSMT-CS-4	HANGER	METAL	GRAY		5.1 +/- 1.7	65	INTACT	Abatement or Encapsulation of all Lead Based Paint
21	4	SPBSMT-CS-4	ASBESTOS P	METAL	GRAY		5.1 +/- 1.6	916	INTACT	Abatement or Encapsulation of all Lead Based Paint
22	4	SPBSMT-CS-4	ASBESTOS P	METAL	WHITE		5.1 +/- 1.6	32	INTACT	Abatement or Encapsulation of all Lead Based Paint
23	4	SPBSMT-CS-4	CONDUIT	METAL	GRAY		14 +/- 6.2	40	INTACT	Abatement or Encapsulation of all Lead Based Paint
24	4	SPBSMT-CS-4	HANGER	METAL	ORANGE		5.1 +/- 1.7	10	INTACT	Abatement or Encapsulation of all Lead Based Paint

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
XRF SAMPLING RESULTS

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
ROOM SPROOF-4											
274	4	ROOF	FLASHING	METAL	BROWN	A	.03 +/- .02				
275	4	ROOF	FLASHING	METAL	BROWN	B	.03 +/- .02				
276	4	ROOF	FLASHING	METAL	BROWN	C	.02 +/- .02				
277	4	ROOF	FLASHING	METAL	BROWN	D	.02 +/- .02				
278	4	ROOF	DRAIN	METAL	BROWN	B,C CORNER	.29 +/- .31				
279			VOID								
280			CALIBRATION				1.12 +/- .13				
281			CALIBRATION				0 +/- .02				
282			CALIBRATION				1.52 +/- .26				

Appendix D:
Dust wipe and soil sample results

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
DUST WIPE RESULTS

Room Number	Sample Number	Building Component - Floor = F Window Sill = WS Window Trough =WT	Location (A, B, C, D)	Area Sampled (sq. ft.)	Condition of Paint (Intact, Fair or Poor)	Is The Surface Smooth & Cleanable? (Y/N)	Interim Controls / Abatement	Results (ug/ft^2)
SP203-4	1W	F		1	N/A	N-CARPET		<10
SP203-4	2W	WS	D	140 IN^2	INTACT	Y		<10
SP213-4	1W	F		1	INTACT	Y		<10
SP210-4	1W	F		1	INTACT	Y		<10
SP210-4	2W	WS	A	140 IN^2	INTACT	Y		39
SP209-4	1W	F		1	N/A	N-CARPET		<10
SP209-4	2W	WS	A	140 IN^2	INTACT	Y		<10
SP208-4	1W	F		1	N/A	N-CARPET		<10
SP208-4	2W	WS	A	140 IN^2	INTACT	Y		<10
SP206-4	1W	F		1	N/A	N-CARPET		<10
SP206-4	2W	WS	C	140 IN^2	INTACT	Y		42
SP2FC-4	1W	F		1	INTACT	Y	See Appendix F	92
SP207-4	1W	F		1	N/A	N-CARPET		<10
SP207-4	2W	WS	C	140 IN^2	INTACT	Y		10
SP214-4	1W	F		1	N/A	N-CARPET		<10
SP215-4	1W	F		1	INTACT	Y		<10
SP204-4	1W	F		1	N/A	N-CARPET		<10
SP204-4	2W	WS	C	140 IN^2	INTACT	Y		<10
SP205-4	1W	F		1	N/A	N-CARPET		<10

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BUILDING 4
DUST WIPE RESULTS

SP205-4	2W	WS	C	140 IN^2	INTACT	Y		<10
SPCOR2-4	1W	F		1	N/A	N-CARPET		<10
SPCOR2-4	2W	WS	B	140 IN^2	INTACT	Y		<10
SP202-4	1W	F		1	INTACT	Y		<10
SP202-4	2W	WS	A	140 IN^2	INTACT	Y		<10
SP105-4	1W	F		1	N/A	N-CARPET		<10
SP105-4	2W	WS	C	140 IN^2	INTACT	Y		19
SPFC1-4	1W	F		1	INTACT	Y	See Appendix F	660
SP106A-4	1W	F		1	INTACT	Y	See Appendix F	59
SP106-4	1W	F		1	INTACT	Y		35
SP107-4	1W	F		1	N/A	N-CARPET		<10
SP107-4	2W	WS	B	140 IN^2	INTACT	Y		25
SP107A-4	1W	F		1	N/A	N-CARPET		<10
SP107A-4	2W	WS	C	140 IN^2	INTACT	Y		56
SP108-4	1W	F		1	INTACT	Y		<10
SP109-4	1W	F		1	INTACT	Y	See Appendix F	45
SP111-4	1W	F		1	INTACT	Y		<10
SP102-4	1W	F		1	N/A	N-CARPET		<10
SP102-4	2W	WS	C	140 IN^2	INTACT	Y		<10
SP102A-4	1W	F		1	N/A	N-CARPET		<10
SP102A-4	2W	WS	A	140 IN^2	INTACT	Y		18
SP110-4	1W	F		1	INTACT	Y		<10

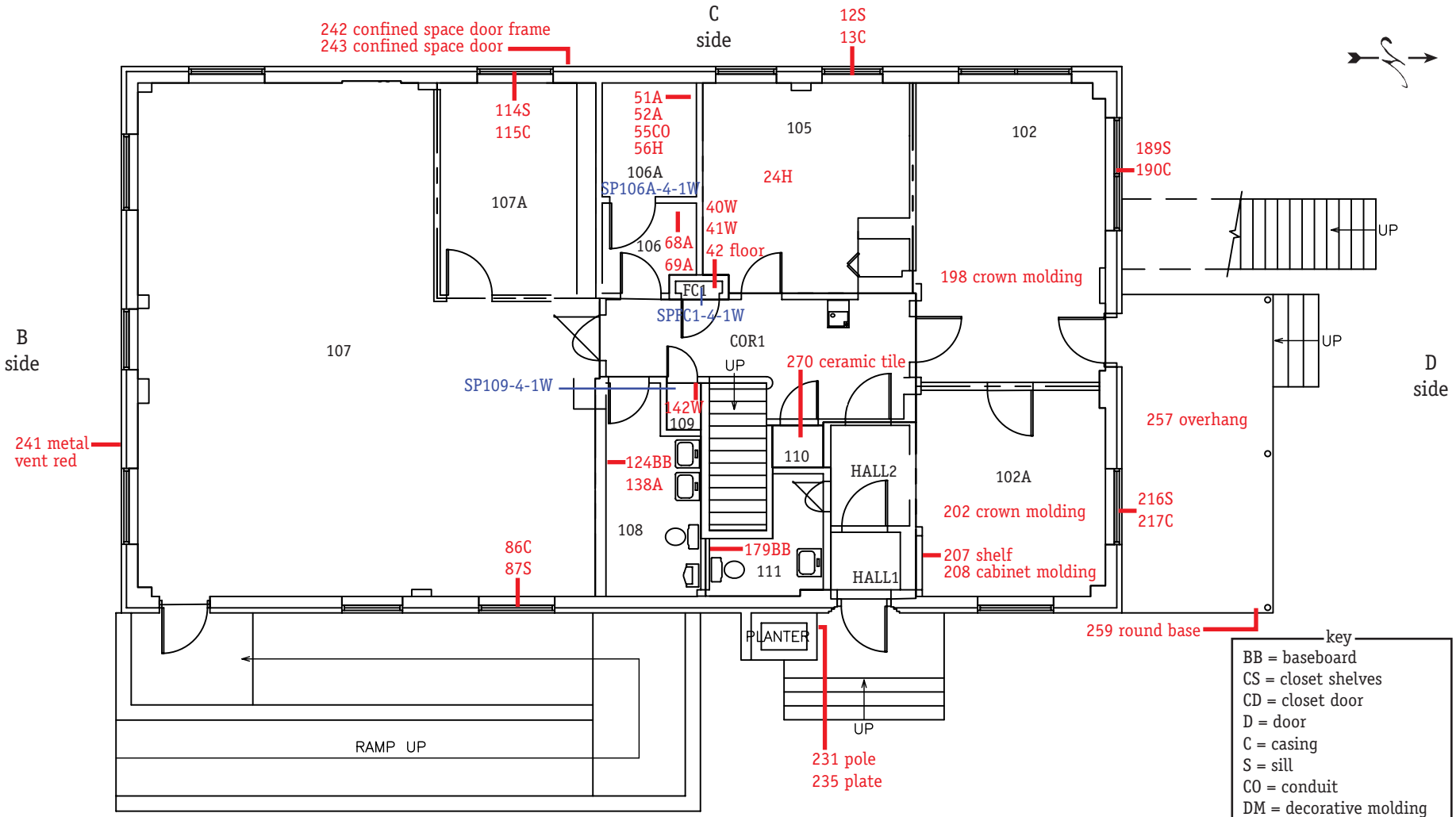
ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
DUST WIPE RESULTS

SPFB1-4								<10
SPFB2-4								<10
SP300-4	SPIKE							210

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
SOIL SAMPLING RESULTS

Sample Number	Building Number	Room Number	Building Component - Floor = F Window Sill = WS Window Trough =WT	Location (A, B, C, D)	Area Sampled (sq. ft.)	Condition of Paint (Intact, Fair or Poor)	Is The Surface Smooth & Cleanable? (Y/N)	Interim Controls / Abatement	Results (mg/kg)
SPBSMT-CS-4	4	Confined Space	Floor-open soil					requires further investigation	490

Appendix E:
Drawings



notes: red numbers are positive XRF sample numbers and can be found in Appendix C
blue numbers ending in 1W or 2W are dust wipes and can be found in Appendix D
black numbers are room numbers
all positive pipes and conduits have been labeled when possible

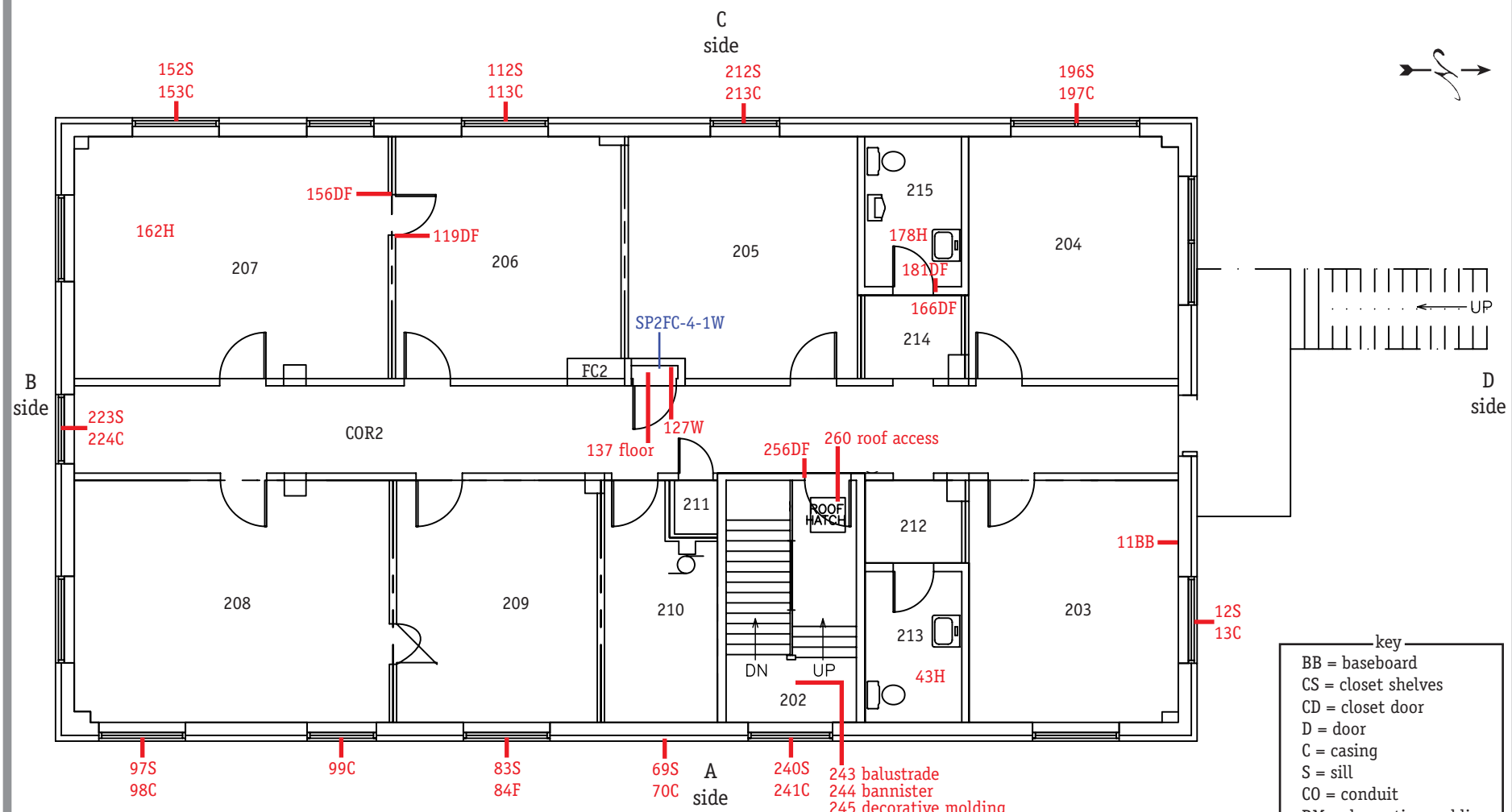
For environmental management purposes only.

figure
Figure 1: Building #4 first floor positive XRF/dust wipe results

client	date	drawn by	rev. no.
Aleda E. Lutz Department of Veteran Affairs Medical Center	November 1, 2009	MD	1

facility	scale	project no.
1500 Weiss Saginaw, MI	*no scale*	PN-2906013

Earth Smart Environmental Solutions, LLC
voice: 734-260-8624
fax: 517-423-5357
www.es2connection.us



notes: red numbers are positive XRF sample numbers and can be found in Appendix C
blue numbers ending in 1W or 2W are dust wipes and can be found in Appendix D
black numbers are room numbers
all positive pipes and conduits have been labeled when possible

For environmental management purposes only.

figure
Figure 2: Building #4 second floor floor positive XRF/dust wipe results

client	date	drawn by	rev. no.
Aleda E. Lutz Department of Veteran Affairs Medical Center	November 1, 2009	MD	1

facility	scale	project no.
1500 Weiss Saginaw, MI	*no scale*	PN-2906013

Earth Smart Environmental Solutions, LLC
voice: 734-260-8624
fax: 517-423-5357
www.es2connection.us

Appendix F:
Interim controls and re-evaluation schedule for hazardous levels of dust

Interim Control Options and Re-evaluation Schedule for Hazardous Levels of Dust

Location	Component	Interim Controls	Abatement Options	Re-evaluation Schedule
SP2FC-4	Floor	A through cleaning of all horizontal surfaces such as interior window sills, window troughs, floors and stairs, but excluding ceilings in accordance with 24 CFR 35.1130 (e)(2) this may or may not include replacement of all windows with lead hazards	Abatement of all lead based paint using encapsulation or enclosure or removal of all lead based paint in accordance with 24 CFR 35.1325	See Attached Table
SPFC1-4	Floor	A through cleaning of all horizontal surfaces such as interior window sills, window troughs, floors and stairs, but excluding ceilings in accordance with 24 CFR 35.1130 (e)(2) this may or may not include replacement of all windows with lead hazards	Abatement of all lead based paint using encapsulation or enclosure or removal of all lead based paint in accordance with 24 CFR 35.1325	See Attached Table
SP106A-4	Floor	A through cleaning of all horizontal surfaces such as interior window sills, window troughs, floors and stairs, but excluding ceilings in accordance with 24 CFR 35.1130 (e)(2) this may or may not include replacement of all windows with lead hazards	Abatement of all lead based paint using encapsulation or enclosure or removal of all lead based paint in accordance with 24 CFR 35.1325	See Attached Table
SP109-4	Floor	A through cleaning of all horizontal surfaces such as interior window sills, window troughs, floors and stairs, but excluding ceilings in accordance with 24 CFR 35.1130 (e)(2) this may or may not include replacement of all windows with lead hazards	Abatement of all lead based paint using encapsulation or enclosure or removal of all lead based paint in accordance with 24 CFR 35.1325	See Attached Table

Table 6.1 Standard Reevaluation Schedules

Schedule	Evaluation Results	Action Taken	Reevaluation Frequency and Duration	Visual Survey (by owner or owner's representative)
1	Combination risk assessment/inspection finds no leaded dust or soil and no lead-based paint.	None.	None.	None.
2	No lead-based paint hazards found during risk assessment conducted before hazard control or at clearance (hazards include dust and soil).	None.	3 Years.	Annually and whenever information indicates a possible problem .
3	The average of leaded dust levels on all floors, interior window sills, or window troughs sampled exceeds the applicable standard, but by less than a factor of 10.	A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to, dust removal. This schedule does not include window replacement.	1 Year, 2 Years.	Same as Schedule 2, except for encapsulants. The first visual survey of encapsulants should be done one month after clearance; the second should be done 6 months later and annually thereafter.
		B. Treatments specified in section A plus replacement of all windows with lead hazards.	1 Year.	
		C. Abatement of all lead-based paint using encapsulation or enclosure.	None.	Same as Schedule 3 above.
		D. Removal of all lead-based paint.	None.	None.
4	The average of leaded dust levels on all floors, interior window sills, or window troughs sampled exceeds the applicable standard by a factor of 10 or more.	A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to dust removal. This schedule does not include window replacement.	6 Months, 1 Year, 2 Years.	Same as Schedule 3.
		B. Treatments specified in section A plus replacement of all windows with lead hazards.	6 Months, 2 Years.	Same as Schedule 3.
		C. Abatement of all lead-based paint using encapsulation and enclosure.	None.	Same as Schedule 3.
		D. Removal of all lead-based paint.	None.	None.

Table 6.1 Standard Reevaluation Schedules (continued)

Schedule	Evaluation Results	Action Taken	Reevaluation Frequency and Duration	Visual Survey (by owner or owner's representative)
5	No leaded dust or leaded soil hazards identified, but lead-based paint or lead-based paint hazards are found.	A. Interim controls or mixture of interim controls and a batement (not including window replacement).	2 Years.	Same as Schedule 3.
		B. Mixture of interim controls and abatement, including window replacement.	3 Years.	Same as Schedule 3.
		C. Abatement of all lead-based paint *hazards*, but not all lead-based paint.	4 Years.	Same as Schedule 3.
		D. Abatement of all lead-based paint using encapsulation or enclosure.	None.	Same as Schedule 3.
		E. Removal of all lead-based paint.	None.	None.
6	Bare leaded soil exceeds standard, but less than 5,000 µg/g.	Interim controls.	None.	Three months to check new ground cover, then annually to identify new bare spots.
7	Bare leaded soil greater than or equal to 5,000 µg/g.	Abatement (paving or removal).	None.	None for removal, annually to identify new bare spots or deterioration of paving.

See notes to table 6.1 on following page.

Notes to Table 6.1:

1. When more than one schedule applies to a dwelling, use the one with the most stringent reevaluation schedule. Do not use the results of a reevaluation for Schedule 2.

2. A lead-based paint hazard includes, but is not limited to, deteriorated lead-based paint and leaded dust and soil above applicable standards. See the Glossary for a more complete definition.

3. The frequency of reevaluations and the interval between reevaluations depends on the findings at each reevaluation and the action taken. For example, a dwelling unit or common area falling under Schedule 3.A would be reevaluated 1 year after clearance. If no lead-based paint hazards are detected at that time, the unit or area would be reevaluated again 2 years after the first reevaluation. If no hazards are found in the second reevaluation, no further reevaluation is necessary, but annual visual monitoring should continue.

   If, on the other hand, the unit or common area fails a reevaluation, a new reevaluation schedule should be determined based on the results of the reevaluation and the action taken. For instance, if the re-evaluation finds deteriorated lead-based paint but no lead-contaminated dust, and the action taken is paint stabilization, Schedule 5.A would apply, which indicates that the next reevaluation should be in 2 years. If, however, the owner of this same property decides to abate all lead-based paint hazards instead of doing only paint stabilization, the property would move to Schedule 5.C, which calls for reevaluation 4 years from the date of clearance after the hazard abatement.

   Following another scenario, suppose a reevaluation of this same dwelling unit or common area finds that the average dust lead levels on sampled window troughs exceeds the applicable standard by a factor of 10 or more, but no other lead-based paint hazards. The owner conducts dust removal. In this case the next reevaluation would be 6 months after clearance followed by another a year later, followed by yet another 2 years later, as indicated by Schedule 4.A.

4. The initial evaluation results determine which reevaluation schedule should be applied. An initial evaluation can be a risk assessment, a risk assessment/ inspection combination, or, if the owner has opted to bypass the initial evaluation and proceed directly to controlling suspected hazards, a combination risk assessment/clearance examination. This type of clearance must be conducted by a certified risk assessor, who should determine if all hazards were in fact controlled. The results of the initial clearance dust tests, soil sampling and visual examination should be used to determine the appropriate schedule. If repeated cleaning was necessary to achieve clearance, use the results of the dust tests *before* repeated cleaning was performed for schedule determination.

5. If a unit fails two consecutive reevaluations, the reevaluation interval should be reduced by half and the number of reevaluations should be doubled. If deteriorated lead-based paint hazards continue to occur, then the offending components/surfaces should be abated. If dwellings with dust hazards but no paint-related hazards repeatedly fail reevaluations, the exterior source should be identified (if identification efforts fail, regular dust removal efforts are needed).

Appendix G:
Laboratory results and chains-of-custody

160911090

Chain of Custody

Lead Lab Services

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205

Phone: (317) 803-2997
Fax: (317) 803-3047
http://www.emsl.com

Please print all information legibly.

Company:	AEM Group	***Bill To:***	AEM Group
Address1:	44339 Plymouth Oaks Blvd.	*Address1:*	44339 Plymouth Oaks Blvd.
Address2:		*Address2:*	
City, State:	Plymouth, MI	*City, State:*	Plymouth, MI
Zip/Post Code:	48170	*Zip/Post Code:*	48170
Country:		*Country:*	
Contact Name:	Amarjit Sidhu	***Attn:***	Amarjit Sidhu
Phone:	734-354-9070	*Phone:*	734-354-9070
Fax:		*Fax:*	
Email:		*Email:*	
EMSL Rep:		***P.O. Number:***	
Project Name/Number:			

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod./AOAC(974.02)	Flame Atomic Absorption	0.01% ++	
Lead WasteWater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air ***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☑ ASTM *List Wipe Type* _____ ☐ -non ASTM	SW846-7420 / HUD Appendix 14.2 Digest	Flame Atomic Absorption	10 ug/wipe	Standard
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 66261.126/ SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead WasteWater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.03 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

1090

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days
*, **, ***, ****, +, ++ ,# Please Refer to Price Quote
^ If no box is checked, non-ASTM is assumed

Chain of Custody

Lead Lab Services

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205

Phone: (317) 803-2997
Fax: (317) 803-3047
http://www.emsl.com

Please print all information legibly.

SAMPLE #	LOCATION	Air Volume, L Area, in^2	LAB #
SP203-4-1W	floor	144 in^2	
SP203-4-2W	window sill	140 in^2	
SP213-4-1W	floor	144 in^2	
~~SP213-4-2W~~	~~window sill~~	~~140 in^2~~	tmc
SP210-4-1W	floor	144 in^2	
SP210-4-2W	window sill	140 in^2	
SP209-4-1W	floor	144 in^2	
SP209-4-2W	window sill	140 in^2	
SP208-4-1W	floor	144 in^2	
SP208-4-2W	window sill	140 in^2	
SP206-4-1W	floor	144 in^2	
SP206-4-2W	window sill	140 in^2	
SP2FC-4-1W	floor	144 in^2	
SP207-4-1W	floor	144 in^2	
SP207-4-2W	window sill	140 in^2	
SP214-4-1W	floor	144 in^2	
SP215-4-1W	floor	144 in^2	
SP204-4-1W	floor	144 in^2	
SP204-4-2W	window sill	140 in^2	
SP205-4-1W	floor	144 in^2	
SP205-4-2W	window sill	140 in^2	
SPCOR2-4-1W	floor	144 in^2	
SPCOR2-4-2W	window sill	140 in^2	
SP202-4-1W	floor	144 in^2	
SP202-4-2W	window sill	140 in^2	
SP105-4-1W	floor	144 in^2	
SP105-4-2W	window sill	140 in^2	
SPFC1-4-1W	floor	140 in^2	

@Relinquished By: (Person) _____ **Date:** 7/17/09

7.20.09 BSJ

1090

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days
*, **, ***, ****, +, ++ ,# Please Refer to Price Quote
^ If no box is checked, non-ASTM is assumed

Chain of Custody

Lead Lab Services

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205

Phone: (317) 803-2997
Fax: (317) 803-3047
http://www.emsl.com

Please print all information legibly.

SAMPLE #	LOCATION	Air Volume, L Area, in^2	LAB #
SP106A-4-1W	floor	144 in^2	
SP106-4-1W	floor	144 in^2	
SP107-4-1W	floor	144 in^2	
SP107-4-2W	window sill	140 in^2	
SP107A-4-1W	floor	144 in^2	
SP107A-4-2W	window sill	140 in^2	
SP108-4-1W	floor	144 in^2	
SP109-4-1W	floor	144 in^2	
SP111-4-1W	floor	144 in^2	
SP102-4-1W	floor	144 in^2	
SP102-4-2W	window sill	140 in^2	
SP102A-4-1W	floor	144 in^2	
SP102A-4-2W	window sill	140 in^2	
SP110-4-1W	floor	144 in^2	
SP300-4-1W	floor	144 in^2	
SP FB1-4-1W	field blank		
SP FB2-4-1W	field blank		

@Relinquished By: (Person) _____ **Date:** 7/17/09

1090

Received at EMSL by: _____ **Date:** _____

Received at EMSL by: _____ **Date:** _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Amarjit Sidhu**
Advanced Environmental Management Group
44339 Plymouth Oaks Blvd.
Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project:

Customer ID: EPSP62
Customer PO:
Received: 07/20/09 8:55 AM
EMSL Order: 160911090

EMSL Proj:

Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes	
0001	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP203-4-1W				Collected:	7/17/2009
0002	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP203-4-2W				Collected:	7/17/2009
0003	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP213-4-1W				Collected:	7/17/2009
0004	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP210-4-1W				Collected:	7/17/2009
0005	7/22/2009	140 in²	10 µg/ft²	39 µg/ft²		
Client Sample	SP210-4-2W				Collected:	7/17/2009
0006	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP209-4-1W				Collected:	7/17/2009
0007	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP209-4-2W				Collected:	7/17/2009
0008	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP208-4-1W				Collected:	7/17/2009
0009	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP208-4-2W				Collected:	7/17/2009
0010	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP206-4-1W				Collected:	7/17/2009
0011	7/22/2009	140 in²	10 µg/ft²	42 µg/ft²		
Client Sample	SP206-4-2W				Collected:	7/17/2009

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
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44339 Plymouth Oaks Blvd.
Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project:

Customer ID: EPSP62
Customer PO:
Received: 07/20/09 8:55 AM
EMSL Order: 160911090

EMSL Proj:

Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes	
0012	7/22/2009	144 in²	10 µg/ft²	92 µg/ft²		
Client Sample	SP2fc-4-1W				**Collected:**	7/17/2009
0013	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP207-4-1W				**Collected:**	7/17/2009
0014	7/22/2009	140 in²	10 µg/ft²	10 µg/ft²		
Client Sample	SP207-4-2W				**Collected:**	7/17/2009
0015	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP214-4-1W				**Collected:**	7/17/2009
0016	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP215-4-1W				**Collected:**	7/17/2009
0017	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP204-4-1W				**Collected:**	7/17/2009
0018	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP204-4-2W				**Collected:**	7/17/2009
0019	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP205-4-1W				**Collected:**	7/17/2009
0020	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP205-4-2W				**Collected:**	7/17/2009
0021	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SPCOR2-4-1W				**Collected:**	7/17/2009
0022	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SPCOR2-4-2W				**Collected:**	7/17/2009

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245

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2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Amarjit Sidhu**
Advanced Environmental Management Group
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Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project:

Customer ID: EPSP62
Customer PO:
Received: 07/20/09 8:55 AM
EMSL Order: 160911090

EMSL Proj:

Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes	
0023	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP202-4-1W				Collected:	7/17/2009
0024	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP202-4-2W				Collected:	7/17/2009
0025	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP105-4-1W				Collected:	7/17/2009
0026	7/22/2009	140 in²	10 µg/ft²	19 µg/ft²		
Client Sample	SP105-4-2W				Collected:	7/17/2009
0027	7/22/2009	140 in²	10 µg/ft²	660 µg/ft²		
Client Sample	SPfc1-4-1W				Collected:	7/17/2009
0028	7/22/2009	144 in²	10 µg/ft²	59 µg/ft²		
Client Sample	SP106A-4-1W				Collected:	7/17/2009
0029	7/22/2009	144 in²	10 µg/ft²	35 µg/ft²		
Client Sample	SP106-4-1W				Collected:	7/17/2009
0030	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP107-4-1W				Collected:	7/17/2009
0031	7/22/2009	140 in²	10 µg/ft²	25 µg/ft²		
Client Sample	SP107-4-2W				Collected:	7/17/2009
0032	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP107A-4-1W				Collected:	7/17/2009
0033	7/22/2009	140 in²	10 µg/ft²	56 µg/ft²		
Client Sample	SP107A-4-2W				Collected:	7/17/2009

Doug Wiegand, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Amarjit Sidhu**
Advanced Environmental Management Group
44339 Plymouth Oaks Blvd.
Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project:

Customer ID: EPSP62
Customer PO:
Received: 07/20/09 8:55 AM
EMSL Order: 160911090

EMSL Proj:

Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes	
0034	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP108-4-1W				Collected:	7/17/2009
0035	7/22/2009	144 in²	10 µg/ft²	45 µg/ft²		
Client Sample	SP109-4-1W				Collected:	7/17/2009
0036	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP111-4-1W				Collected:	7/17/2009
0037	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP102-4-1W				Collected:	7/17/2009
0038	7/22/2009	140 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP102-4-2W				Collected:	7/17/2009
0039	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP102A-4-1W				Collected:	7/17/2009
0040	7/22/2009	140 in²	10 µg/ft²	18 µg/ft²		
Client Sample	SP102A-4-2W				Collected:	7/17/2009
0041	7/22/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP110-4-1W				Collected:	7/17/2009
0042	7/22/2009	144 in²	10 µg/ft²	210 µg/ft²		
Client Sample	SP300-4-1W				Collected:	7/17/2009
0043	7/22/2009	0 in²	10 µg/wipe	<10 µg/wipe		
Client Sample	SPfb1-4-1W				Collected:	7/17/2009
0044	7/22/2009	0 in²	10 µg/wipe	<10 µg/wipe		
Client Sample	SPfb2-4-1W				Collected:	7/17/2009

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Amarjit Sidhu**
Advanced Environmental Management Group
44339 Plymouth Oaks Blvd.
Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project:

Customer ID: EPSP62
Customer PO:
Received: 07/20/09 8:55 AM
EMSL Order: 160911090

EMSL Proj:

Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	***Analyzed***	*Area Sampled*	***RDL***	*Lead* ***Concentration***	***Notes***

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245

160917129

Chain of Custody

Lead Lab Services

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205

Phone: (317) 803-2997
Fax: (317) 803-3047
http://www.emsl.com

Please print all information legibly.

Company:	AEM Group	***Bill To:***	AEM Group
Address1:	44339 Plymouth Oaks Blvd.	*Address1:*	44339 Plymouth Oaks Blvd.
Address2:		*Address2:*	
City, State:	Plymouth, MI	*City, State:*	Plymouth, MI
Zip/Post Code:	48170	*Zip/Post Code:*	48170
Country:		*Country:*	
Contact Name:	Avtar Mavi	***Attn:***	Avtar Mavi
Phone:	734-354-9070	*Phone:*	734-354-9070
Fax:		*Fax:*	
Email:	amavi@environmental-help.com	*Email:*	
EMSL Rep:		***P.O. Number:***	
Project Name/Number:	VA Hospital Saginaw, MI		

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod./AOAC(974.02)	Flame Atomic Absorption	0.01% ++	
Lead WasteWater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	STANDARD
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air ***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☒-ASTM *List Wipe Type* _____ ☐ -non ASTM	SW846-7420 / HUD Appendix 14.2 Digest	Flame Atomic Absorption	10 ug/wipe	STANDARD
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 66261.126/ SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead WasteWater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.03 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

17129

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days
*, **, ***, ****, +, ++ ,# Please Refer to Price Quote
^ If no box is checked, non-ASTM is assumed

Chain of Custody

Lead Lab Services

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205

Phone: (317) 803-2997
Fax: (317) 803-3047
http://www.emsl.com

Please print all information legibly.

SAMPLE #	LOCATION	Air Volume, L Area, in^2	LAB #
SP71CS-1-1W	Floor	144	
SP12CS-1-1W	Floor	144	
SP261CS-1-1W	Floor	144	
SP393-1-1W	Floor	144	
SP393-1-2W	Window Sill	144	
SP BSMt-CS-9	Floor	Soil	
SP BSMt-CS-9-2W	Window Sill	144	
SP BSMt-CS-4	Floor	Soil	
SP BSMt-CS-2	Floor	Soil	
SPFB13-1			
SP75-1-1W	Floor	144	

@Relinquished By: (Person) _____ **Date:** 10/16/09

Received at EMSL by: Heather Simmons **Date:** 10/19/09 9:55FX

Received at EMSL by: _____ **Date:** _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Avtar Mavi**
Advanced Environmental Management Group
44339 Plymouth Oaks Blvd.
Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project: **VA Hospital Saginaw, MI**

Customer ID: EPSP62
Customer PO:
Received: 10/19/09 9:55 AM
EMSL Order: 160917129

EMSL Proj: VA Hospital Saginaw. MI

Test Report: Lead in Soils by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	***Analyzed***	***RDL***	*Lead* ***Concentration***	***Notes***	
0009	10/22/2009	40 mg/Kg	94 mg/Kg		
Client Sample	SP BSMT-CS-9			***Collected:***	10/16/2009
0010	10/22/2009	40 mg/Kg	490 mg/Kg		
Client Sample	SP BSMT-CS-4			***Collected:***	10/16/2009
0011	10/22/2009	40 mg/Kg	530 mg/Kg		
Client Sample	SP BSMT-CS-2			***Collected:***	10/16/2009

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 40 mg/kg. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected . This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245, OH E10040

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
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44339 Plymouth Oaks Blvd.
Plymouth, MI 48170-2585

Fax: (810) 966-9853 Phone: (810) 966-9850
Project: **VA Hospital Saginaw, MI**

Customer ID: EPSP62
Customer PO:
Received: 10/19/09 9:55 AM
EMSL Order: 160917129

EMSL Proj: VA Hospital Saginaw. MI

Test Report: Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes	
0001	10/21/2009	144 in²	100 µg/ft²	1800 µg/ft²		
Client Sample	SP71CS-1-1W				**Collected:**	10/16/2009
0002	10/21/2009	144 in²	100 µg/ft²	1900 µg/ft²		
Client Sample	SP12CS-1-W				**Collected:**	10/16/2009
0003	10/21/2009	144 in²	10 µg/ft²	700 µg/ft²		
Client Sample	SP261CS-1-1W				**Collected:**	10/16/2009
0004	10/21/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP393-1-1W				**Collected:**	10/16/2009
0005	10/21/2009	144 in²	10 µg/ft²	<10 µg/ft²		
Client Sample	SP393-1-2W				**Collected:**	10/16/2009
0006	10/21/2009	144 in²	400 µg/ft²	38000 µg/ft²		
Client Sample	SP BSMT-CS-2W				**Collected:**	10/16/2009
0007	10/21/2009	0 in²	10 µg/wipe	<10 µg/wipe		
Client Sample	SPFB13-1				**Collected:**	10/16/2009
0008	10/21/2009	144 in²	10 µg/ft²	190 µg/ft²		
Client Sample	SP715-1-1W				**Collected:**	10/16/2009

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. The QC data associated with these sample results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis 2001 East 52nd St., Indianapolis IN AIHA ELLAP 157245

Appendix H:
XRF raw data

Appendix I:
Total abatement cost estimate

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
ROOM SP203-4											
11	4	SP203-4	BASEBOARD	VINYL	BLACK	D	1.18 +/- 1.26	24	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,400
12	4	SP203-4	WINDOW SILL	WOOD	WHITE	D	5.11 +/- 1.88	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$800
13	4	SP203-4	WINDOW FRAME	WOOD	WHITE	D	4.10 +/- 1.43	10	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,000
ROOM SP213-4											
43	4	SP213-4	HANGER	METAL	ORANGE		11.55 +/- 2.69	2	INTACT	Abatement or Encapsulation of all Lead Based Paint	$130
ROOM SP210-4											
69	4	SP210-4	WINDOW SILL	WOOD	WHITE	A	5.62 +/- 1.78	3	POOR	Abatement or Encapsulation of all Lead Based Paint	$300
70	4	SP210-4	WINDOW FRAME	WOOD	WHITE	A	3.48 +/- 1.14	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
ROOM SP209-4											
83	4	SP209-4	WINDOW SILL	WOOD	WHITE	A	4.82 +/- 1.58	3	INTACT	Abatement or Encapsulation of all Lead Based Paint	$300
84	4	SP209-4	WINDOW FRAME	WOOD	WHITE	A	4.33 +/- 1.55	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
ROOM SP208-4											
97	4	SP208-4	WINDOW SILL	WOOD	WHITE	A	4.6 +/- 1.56	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
98	4	SP208-4	WINDOW FRAME	WOOD	WHITE	A	5.28 +/- 1.82	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
99	4	SP208-4	WINDOW FRAME	WOOD	WHITE	A	7.69 +/- 2.25	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
ROOM SP206-4											
112	4	SP206-4	WINDOW SILL	WOOD	WHITE	C	6.04 +/- 2.06	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
113	4	SP206-4	WINDOW FRAME	WOOD	WHITE	C	6.08 +/- 2.36	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
119	4	SP206-4	DOOR FRAME	METAL	GRAY	B	2.31 +/- .96	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
ROOM SP2FC-4											
127	4	SP2FC-4	WALL	PLASTER	RED	C	1.57 +/- .26	1.6	INTACT	Abatement or Encapsulation of all Lead Based Paint	$160
137	4	SP2FC-4	FLOOR	CONCRETE	RED		1.61 +/- .3	3	INTACT	Abatement or Encapsulation of all Lead Based Paint	$300
ROOM SP207-4											
152	4	SP207-4	WINDOW SILL	WOOD	WHITE	C	4.84 +/- 1.7	11	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,100
153	4	SP207-4	WINDOW FRAME	WOOD	WHITE	C	5.0 +/- 1.84	14	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,400
156	4	SP207-4	DOOR FRAME	METAL	GRAY	D	2.54 +/- 1.16	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
162	4	SP207-4	HANGER	METAL	ORANGE		8.1 +/- 2.43	1	INTACT	Abatement or Encapsulation of all Lead Based Paint	$65
ROOM SP214-4											

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
166	4	SP214-4	DOOR JAMB	METAL	GRAY	C	4.38 +/- 1.72	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
					ROOM SP215-4						
178	4	SP215-4	HANGER	METAL	ORANGE		2.97 +/- .96	2	INTACT	Abatement or Encapsulation of all Lead Based Paint	$130
181	4	SP215-4	DOOR FRAME	METAL	GRAY	A	2.21 +/- .96	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
					ROOM SP204-4						
196	4	SP204-4	WINDOW SILL	WOOD	WHITE	C	4.2 +/- 1.48	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$800
197	4	SP204-4	WINDOW FRAME	WOOD	WHITE	C	3.65 +/- 1.20	10	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,000
					ROOM SP205-4						
212	4	SP205-4	WINDOW SILL	WOOD	WHITE	C	5.58 +/- 1.95	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
213	4	SP205-4	WINDOW FRAME	WOOD	WHITE	C	7.71 +/- 2.55	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
					ROOM SPCOR2-4						
223	4	SPCOR2-4	WINDOW SILL	WOOD	WHITE	B	5.12 +/- 1.59	3	INTACT	Abatement or Encapsulation of all Lead Based Paint	$300
224	4	SPCOR2-4	WINDOW FRAME	WOOD	WHITE	B	6.82 +/- 2.75	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
					ROOM SP202-4						
240	4	SP202-4	WINDOW SILL	WOOD	WHITE	B	5.97 +/- 1.81	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
241	4	SP202-4	WINDOW FRAME	WOOD	WHITE	B	3.69 +/- 1.30	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
243	4	SP202-4	BALLUSTRAD	METAL	WHITE		1.36 +/- .42	14	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,400
244	4	SP202-4	BANNISTER	METAL	WHITE		2.59 +/- 8.3	32	INTACT	Abatement or Encapsulation of all Lead Based Paint	$3,200
245	4	SP202-4	DECORATIVE MOLDING	WOOD	WHITE		1.88 +/- .70	6	INTACT	Abatement or Encapsulation of all Lead Based Paint	$600
248	4	SP202-4	BASEBOARD	WOOD	WHITE		5.58 +/- 2.26	21	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,100
250	4	SP202-4	HANDRAIL HOLDER	METAL	WHITE		2.69 +/- 1.08	1	INTACT	Abatement or Encapsulation of all Lead Based Paint	$100
256	4	SP202-4	DOOR FRAME	METAL	GRAY	C	1.66 +/- .61	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
260	4	SP202-4	ROOF ACCESS	WOOD	WHITE		5.25 +/- 1.78	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
273	4	SP202-4	RISER	METAL	WHITE		1.18 +/- .42	65	INTACT	Abatement or Encapsulation of all Lead Based Paint	$6,500

Subtotal estimate for 2nd floor $32,185

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BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
ROOM SP105-4											
12	4	SP105-4	WINDOW SILL	WOOD	WHITE	C	5.5 +/- 1.89	6	INTACT	Abatement or Encapsulation of all Lead Based Paint	$600
13	4	SP105-4	WINDOW FRAME	WOOD	WHITE	C	4.52 +/- 1.49	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$800
24	4	SP105-4	HANGER	METAL	ORANGE		16.87 +/- 6.27	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$520
ROOM SPFC1-4											
40	4	SPFC1-4	WALL	PLASTER	RED	C	1.22 +/- .17	2	INTACT	Abatement or Encapsulation of all Lead Based Paint	$200
41	4	SPFC1-4	WALL	PLASTER	RED	D	1.22 +/- .18	0.5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$50
42	4	SPFC1-4	FLOOR	CONCRETE	RED		1.56 +/- .26	3	INTACT	Abatement or Encapsulation of all Lead Based Paint	$300
ROOM SP106A-4											
51	4	SP106A-4	ASBESTOS INSULATED PIPE	METAL	BLACK SPECKL	D	14.68 +/- 3.33	13	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,300
52	4	SP106A-4	ASBESTOS INSULATED PIPE	METAL	WHITE	D	16.54 +/- 22.3	7.5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$750
55	4	SP106A-4	CONDUIT	METAL	WHITE		13.13 +/- 2.86	6	INTACT	Abatement or Encapsulation of all Lead Based Paint	$600
56	4	SP106A-4	HANGER	METAL	WHITE		16.63 +/- 7.26	2	INTACT	Abatement or Encapsulation of all Lead Based Paint	$130
ROOM SP106-4											
68	4	SP106-4	ASBESTOS INSULATED PIPE	METAL	BLACK SPECKL	D	24.81 +/- 8.10	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$800
69	4	SP106-4	ASBESTOS INSULATED PIPE	METAL	WHITE	D	19.40 +/- 6.30	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
ROOM SP107-4											
86	4	SP107-4	WINDOW FRAME	WOOD	WHITE	A	6.85 +/- 1.98	28	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,800
87	4	SP107-4	WINDOW SILL	WOOD	WHITE	A	4.96 +/- 1.85	25	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,500
ROOM SP107A-4											
114	4	SP107A-4	WINDOW SILL	WOOD	WHITE	C	4.91 +/- 1.88	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
115	4	SP107A-4	WINDOW FRAME	WOOD	WHITE	C	5.10 +/- 1.82	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
ROOM SP108-4											
124	4	SP108-4	BASEBOARD	VINYL	BLACK	B	4.38 +/- 1.42	20	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,000
138	4	SP108-4	ASBESTOS INSULATED PIPE	METAL	WHITE		10.94 +/- 2.56	22	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,200
ROOM SP109-4											
142	4	SP109-4	WALL	PLASTER	WHITE	C	1.68 +/- .44	3	POOR	Abatement or Encapsulation of all Lead Based Paint	$300
ROOM SP111-4											
179	4	SP111-4	BASEBOARD	CERAMIC TILE	PINK	B	15.58 +/- 6.83	15	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,500
ROOM SP102-4											
189	4	SP102-4	WINDOW SILL	WOOD	WHITE	D	6.77 +/- 2.8	18	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,800

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BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
190	4	SP102-4	WINDOW FRAME	WOOD	WHITE	D	4.37 +/- 1.39	24	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,400
198	4	SP102-4	CROWN MOLDING	WOOD	WHITE		11.86 +/- 3.24	29	INTACT	Abatement or Encapsulation of all Lead Based Paint	$2,900
ROOM SP102A-4											
202		SP102A-4	CROWN MOLDING	WOOD	WHITE	B	8.18 +/- 2.76	17	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,700
207	4	SP102A-4	SHELF	WOOD	WHITE	B	5.10 +/- 2.01	35	INTACT	Abatement or Encapsulation of all Lead Based Paint	$3,500
208	4	SP102A-4	CABINET MOLDING	WOOD	WHITE	B	7 +/- 2.95	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$800
216	4	SP102A-4	WINDOW SILL	WOOD	WHITE	D	6.32 +/- 2.32	8	INTACT	Abatement or Encapsulation of all Lead Based Paint	$800
217	4	SP102A-4	WINDOW FRAME	WOOD	WHITE	D	7.64 +/- 2.86	10	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,000
ROOM SP110-4											
270	4	SP110-4	CERAMIC TILE	CERAMIC	PINK GLAZE	B	13.52 +/- 3.06	7	INTACT	Abatement or Encapsulation of all Lead Based Paint	$700

Subtotal estimate for 1st floor $34,350

ALEDA E. LUTZ
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
ROOM SPOUTSIDE-4											
231	4	OUTSIDE	POLE	METAL	BLACK	A	3.42 +/- 1.02	62	INTACT	Abatement or Encapsulation of all Lead Based Paint	$6,200
235	4	OUTSIDE	PLATE	METAL	BLACK	A	5.1 +/- 1.7	4	INTACT	Abatement or Encapsulation of all Lead Based Paint	$400
241	4	OUTSIDE	GRATE	METAL	RED	B	18.18 +/- 7.53	14	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,400
242	4	OUTSIDE	CONFINED SPACE FRAME	WOOD	WHITE	C	33.87 +/- 9.99	12	INTACT	Abatement or Encapsulation of all Lead Based Paint	$1,200
243	4	OUTSIDE	CF DOOR	WOOD	WHITE	C	24.28 +/- 7.55	5	INTACT	Abatement or Encapsulation of all Lead Based Paint	$500
257	4	OUTSIDE	OVERHANG FRAME	WOOD	WHITE	D	18.04 +/- 6.39	36	INTACT	Abatement or Encapsulation of all Lead Based Paint	$3,600
259	4	OUTSIDE	ROUND BASE	METAL	BLACK	D	5.10 +/- 1.81	4	POOR	Abatement or Encapsulation of all Lead Based Paint	$400
										Subtotal estimate for Outside	$13,700

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BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
ROOM SPBSMT-CS-4											
19	4	SPBSMT-CS-4	PIPE	METAL	GRAY		14 +/- 6.1	157	INTACT	Abatement or Encapsulation of all Lead Based Paint	$15,700
20	4	SPBSMT-CS-4	HANGER	METAL	GRAY		5.1 +/- 1.7	65	INTACT	Abatement or Encapsulation of all Lead Based Paint	$4,225
21	4	SPBSMT-CS-4	ASBESTOS PIPE	METAL	GRAY		5.1 +/- 1.6	916	INTACT	Abatement or Encapsulation of all Lead Based Paint	$91,600
22	4	SPBSMT-CS-4	ASBESTOS PIPE	METAL	WHITE		5.1 +/- 1.6	32	INTACT	Abatement or Encapsulation of all Lead Based Paint	$3,200
23	4	SPBSMT-CS-4	CONDUIT	METAL	GRAY		14 +/- 6.2	40	INTACT	Abatement or Encapsulation of all Lead Based Paint	$4,000
24	4	SPBSMT-CS-4	HANGER	METAL	ORANGE		5.1 +/- 1.7	10	INTACT	Abatement or Encapsulation of all Lead Based Paint	$650
										Subtotal estimate for crawl space	$119,375

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BUILDING 4
COST ESTIMATE FOR LEAD-BASED PAINT ABATEMENT / PAINT STABLIZATION

XRF Sample Number	Building Number	Room Number	Building Component	Substrate	Color	Location (A,B,C,D)	Lead Results (mg/cm2)	Quantity - Positive Only (sq. ft.)	Damage	Abatement options	Cost Estimate for lead-based paint abatement/paint stablization
ROOM SPROOF-4											
274	4	ROOF	FLASHING	METAL	BROWN	A	.03 +/- .02				
275	4	ROOF	FLASHING	METAL	BROWN	B	.03 +/- .02				
276	4	ROOF	FLASHING	METAL	BROWN	C	,02 +/- .02				
277	4	ROOF	FLASHING	METAL	BROWN	D	.02 +/- .02				
278	4	ROOF	DRAIN	METAL	BROWN	B,C CORNER	.29 +/- .31				
279			VOID								
280			CALIBRATION				1.12 +/- .13				
281			CALIBRATION				0 +/- .02				
282			CALIBRATION				1.52 +/- .26				

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